A T T E N T I O N

THIS FORM IS TO BE USED ONLY WHEN WATER HAS BEEN PLACED TO BENEFICIAL USE

Form 152

BEFORE THE STATE ENGINEER OF THE STATE OF UTAH

ELECTION TO FILE WATER USER'S CLAIM

APPLICATION NO. 32773(09-281)

STATE OF ~~UTAH~~ Utah)
) ss.
COUNTY OF San Juan)

Phillips Petroleum Company, being first duly sworn, says that he is the owner of the above application; that the development contemplated under this application has been completed and the water placed to beneficial use.

In lieu of submitting "Proof of Appropriation" or "Proof of Change" and receiving "Certificate of Appropriation" or "Certificate of Change", the applicant hereby elects to file a "Statement of Water User's Claim" or an "Amended Statement of Water User's Claim" in the pending GENERAL DETERMINATION OF WATER RIGHTS; and that the applicant requests that said statement be prepared by the State Engineer and submitted for execution at an early date.

Phillips Petroleum Company
By: H. A. Kuehnert
Attorney-in-Fact

H A Kuehnert
APPLICANT

ROC

Subscribed and sworn to before me this 22nd day of August, 1983.

[illegible]
NOTARY PUBLIC

My commission expires: 9-16-[illegible]

J. P. Denny

December 23, 1970

Mr. Kenward H. McKinney, Area Engineer
State of Utah
Department of Natural Resources
6 East Main
Price, Utah 84501

Dear Mr. McKinney:

Enclosed is a completed and notarized State of Utah Form No. 152, "Election to File Water User's Claim" for water placed in beneficial use by Phillips Petroleum Company in the Ratherford Unit, San Juan County, Utah.

Very truly yours,

H. W. Patterson
Production Director
Western District

CML:rc
Attachment

bcc: Mr. J. P. Denny (2)

INTER-OFFICE CORRESPONDENCE / SUBJECT:

Denver Legal Department

Ratherford Unit
San Juan County, Utah
Application No. 32773
Proof of Appropriation

December 2, 1970

Mr. H. W. Patterson
Denver District Office

This is in answer to your inquiry of November 20, 1970, regarding the filing of an Election to File Water Users Claim in lieu of a Proof of Appropriation in the above matter. It is my opinion that we should elect to file the Election to File Water Users Claim.

An investigation of the pertinent Utah Statutes discloses that there is no difference between the legal effect of the two procedures. The election procedure is judicial in nature and results in a court order stating precisely our rights regarding use of the water. The decision is based upon the recommendation of the State Engineer, who has the responsibility for surveying, etc. if it is necessary. In short, we will get the same benefit at little or no expense.

Thomas M. Blume

Thomas M. Blume

TMB/cjk

Ratherford Unit
San Juan County, Utah
Application No. 32773
Proof of Appropriation

1300 Security Life Building
Denver, Colorado 80202

November 20, 1970

Mr. T. M. Blume
Division Chief Attorney
Denver Legal Department

Attached is a file pertaining to Phillips Petroleum Company's application for permanent use of water from underground and subsurface flow of the San Juan River in Utah for the beneficial use of pressure maintenance and secondary recovery in the Ratherford Unit.

I would like to direct your attention to Mr. C. H. Boles' letter of November 23, 1965, for background information.

On June 16, 1966, the Utah State Engineer granted a five-year extension to our Application No. 32773 for submittal of Proof of Appropriation. This extension will have elapsed on February 28, 1971.

We are preparing to file the Proof of Appropriation, however, the Casper office has information from the Area Engineer, Division of Water Rights, Department of Natural Resources, State of Utah that the filing of Proof of Appropriation is not necessary, but that filing of an Election to File Water Users Claim is necessary for permanent use of water from subsurface flow of the San Juan River.

We will appreciate your opinion on this filing.

H. W. Patterson

CML:rc
Attachment

cc: Mr. T. A. Matthews

Form 97 5M 8-59 Application No. 32773

APPLICATION TO APPROPRIATE WATER
STATE OF UTAH

NOTE:—The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation ☐ Domestic ☐ Stockwatering ☐ Municipal ☐ Power ☐ Mining ☒ Other Uses ☐
2. The name of the applicant is PHILLIPS PETROLEUM COMPANY
3. The Post Office address of the applicant is Bartlesville, Oklahoma
4. The quantity of water to be appropriated is -- 8 -- second-feet or ..... acre-feet
5. The water is to be used for See Explanatory (Major Purpose) from January 1 (Month) (Day) to December 31 (Month) (Day)

   other use period ..... (Minor Purpose) from ..... (Month) (Day) to ..... (Month) (Day)

   and stored each year (if stored) from ..... (Month) (Day) to ..... (Month) (Day)
6. The drainage area to which the direct source of supply belongs is ..... (Leave Blank)
7. The direct source of supply is* Underground water and subsurface flow of San Juan River (Name of stream or other source)

   which is tributary to Colorado River tributary to .....

*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in San Juan County, situated at a point* ~~See Explanatory~~ #1-S.1000 ft. and W. 150 ft.; #2-S.1000 ft. and W. 450 ft.; #3-S.1000 ft. and W. 750 ft.; #4-S.1000 ft. and W. 1050 ft.; #5-S.1000 ft. and W. 1350 ft.; #6-S.1000 ft. and W. 1650 ft.; #7-S.1000 ft. and W. 1950 ft.; #8-S.1000 ft. and W. 2250 ft.; #9-S.1000 ft. and W. 2550 ft.; and #10-S.1000 ft. and W. 2850 ft.; all from NE Cor. Sec. 5, T41S, R24E. SLB&M. (See letter of 3-16-61 attached

*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of See Explanatory .....

10. If water is to be stored, give capacity of reservoir in acre-feet ..... height of dam.....

    area inundated in acres ..... legal subdivision of area inundated .....

11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:

    ..... Total ..... Acres

12. Is the land owned by the applicant? Yes..... No.....
13. Is this water to be used supplementally with other water rights? Yes..... No.....

    If "yes," identify other water rights under explanatory.
14. If application is for power purposes, describe type of plant, size and rated capacity.....
15. If application is for mining, the water will be used in Greater Aneth Area ~~oil field~~ where the following ores are mined oil and gas
16. If application is for stockwatering purposes, number and kind of stock watered.....
17. If application is for domestic purposes, number of families to be served.....
18. If application is for municipal purposes, name of municipality .....
19. If application is for other uses, include general description of proposed uses.....
20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. See Explanatory .....
21. The use of water as set forth in this application will consume -- 8 -- second-feet of water and -- 0 -- second feet will be returned to the natural stream or source at a point described as follows:.....

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

ITEM 7

The water will be pumped from the diversion area to the oil field where the water will be injected under pressure through deep wells into the petroleum-bearing formations for pressure maintenance and secondary recovery purposes.

ITEM 8

The point or points of diversion from the source will be in Section 5, T41S, R24E SLM, San Juan County, situated as follows: From that point at which the south bank of the river channel intersects the east line of Section 5, T41S, R24E, to that point at which the South bank of river channel intersects the North line of Section 5, T41S, R24E.

Diversion will be from one or more wells or infiltration galleries to be drilled in the alluvial fill and to be located as close to the South bank of the river channel as is practical within the east-west limits as above defined. Specific location and number of diversion points will be determined by a hydrographic survey and/or producing characteristics of wells to be drilled. The aggregate withdrawal, the rate of which is not to exceed that specified in this application, will be commingled in a conveyance works described in greater detail herein.

ITEM 9

The diverting and carrying works will consist of 12-1/4" diameter wells, cased with 35 to 50 feet of 8-5/8 inch outside diameter pipe to be drilled to depths of from 35 feet to 50 feet and about 14,500 feet of 10-3/4 inch conveyance pipe to places of use.

ITEM 20

Township 41 South, Range 23 East, SLM

S/2 Sec. 1; SE/4 Sec. 2; E/2 Sec. 11; All Sec. 12; All Sec. 13, E/2 Sec. 14, NE/4 Sec. 24.

Township 41 South, Range 24 East, SLM

All Sections 3, 4, 5, 6, 7, 8, 9, 10; W/2 Sec. 11, W/2 Sec. 14; All Sections 15, 16, 17, 18, 19, 20, 21; NW/4, W/2 SW/4 Sec. 22; W/2 NE/4, NW/4, W/2 SW/4 Sec. 28; All Sections 29, 30; N/2 Sec. 31; N/2 Sec. 32.

Said described lands, which are in San Juan County, Utah, constitute the Ratherford portion of the Greater Aneth Area oil field.

Continued on page 4

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described.

PHILLIPS PETROLEUM COMPANY

By: L. E. Fitzjarrald

Signature of Applicant*

VICE PRESIDENT OF PRODUCTION

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH,
County of..... } ss

On the ..... day of..... , 19..... , personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL)

Notary Public

FEES FOR APPLICATIONS TO APPROPRIATE WATER IN UTAH

Flow rate — c.f.s.	Cost	
0.0 to 0.1	$ 10.00	
over 0.1 to 0.5	20.00	
over 0.5 to 1.0	30.00	
over 1.0 to 15.0	30.00	plus $5/cfs above 1.00 cfs.
over 15.0	100.00	
Storage — acre-feet		
0 to 20	15.00	
over 20 to 500	30.00	
over 500 to 7500	30.00	plus $5/500 a. f. above first 500
over 7500	100.00	

RECEIVED ... STATE ENGINEER'S OFFICE ...

(This section is not to be filled in by applicant)

STATE ENGINEER'S ENDORSEMENTS

11:00 a.m.

1. Feb. 27, 1961 Application received by mail ~~over counter~~ in State Engineer's office by ...
2. .... Priority of Application brought down to, on account of ....
3. Feb. 27, 1961 Application fee, $ 55.00, received by ...... Rec. No. 02365
4. Mar. 10, 1961 Application ~~copied in~~ PHOTOSTATED book 710.32 page 357, and indexed by J.T.
5. .... Application platted by ... 3-11-21 ... aac-(5) abd-(6) ubt-(7) abd ( ) abc ( ) abc ( ) bad
6. April 7, 1961 Application examined by MC
7. .... Application returned, ... or corrected by office ....
8. .... Corrected Application resubmitted over counter / by mail to State Engineer's office.
9. April 7, 1961 Application approved for advertisement by MC
10. June 16, 1961 Notice to water users prepared by R.K.H.
11. June 29, 1961 Publication began; was completed July 13, 1961

    Notice published in San Juan Record, Monticello, Utah
12. June 27, 1961 Proof slips checked by J. S. & D. G.
13. .... Application protested by ....

July 25, 1961 - Publisher paid M.E.V. 2-1016 ...

14. .... Hearing held by ....
15. .... Field examination by ....
16. Sept. 5, 1961 Application designated for approval ~~rejection~~ ...
17. Sept. 11, 1961 Application copied or photostated by T.E. proofread by ....
18. Sept. 11, 1961 Application approved ~~rejected~~
19. **Conditions:**

    This Application is approved, subject to prior rights, as follows:

    a. Actual construction work shall be diligently prosecuted to completion.

    b. Proof of Appropriation shall be submitted to the State Engineer's office by Feb. 28, 1963

    c. ....

Wayne D. Criddle
Wayne D. Criddle State Engineer.

20. .... Time for making Proof of Appropriation extended to ....
21. .... Proof of Appropriation submitted.
22. .... Certificate of Appropriation, No. ...., issued

Application No. 32773

EXPLANATORY CONTINUED

The use of the applied for water for the planned pressure maintenance and secondary recovery operations will permit the recovery of substantial quantities of oil and gas which would otherwise not be recovered.

NOTICE TO APPLICANT

All waters in this state, whether above or under the ground, are the property of the public, subject to all existing rights to the use thereof. No appropriation of the unappropriated public water may be made and no rights to the use thereof shall be recognized except Application for such appropriation first be made to the State Engineer.

The approval of this Application is not a Certificate of Appropriation. It is merely your authority to begin construction work, which must be prosecuted diligently to completion. To secure a Certificate of Appropriation under this Application, Proof of Appropriation must be submitted within the time limit allowed by the State Engineer. The amount of water for which Certficate will be issued will depend upon the amount of water actually put to a beneficial use, not to exceed, however, the amount of water specified in this Application. Proof of Appropriation must be made in accordance with the requirements of the law. For further information write the State Engineer.

Lewis Hoover file/ss

October 13, 1961

AIRMAIL

Mr. Clair M. Senior
Senior & Senior
Attorneys at Law
10 Exchange Place
Salt Lake City, Utah

Re: Alternate or Additional Source of Water
for the Ratherford Unit, San Juan County, Utah

Dear Clair:

Herewith in triplicate is completed and signed application to the Utah State Engineer for additional and alternate points of diversion for water for water-flood purposes in the Ratherford Unit. I would appreciate it if you would handle this matter with the Water Engineer and, as diplomatically as possible, urge upon him the importance of expediting the matter as much as possible.

Having gotten these papers back from the Production Department too late to get a check for the filing fee, I would ask that you advance the fee and, upon being billed, I will send you the check.

If you need any additional information, please advise.

Very truly yours,

RMW:jd
Enclosures

R. M. Williams

cc - Mr. Shofner Smith

2-T03S-R24E

3 copies Aero... Claim Service 10-13-61 ... SCOPE LICENSE Legal

Form 107—6-57—2M

CHANGE APPLICATION NO.........

Application for Permanent Change of Point of Diversion, Place and Nature of Use of Water

STATE OF UTAH

Do not fill out this blank until you have read carefully and thoroughly understand the "Rules and Regulations" on the back hereof and all the notes in the body of it.

For the purpose of obtaining permission to permanently change the point of diversion, ~~place or nature of use~~ of **(Strike out written matter not needed)** *water right acquired by* original Application No. 32773 **(Give No. of Application, certificate of appropriation, title and date of Decree or other identification of right)** *to that hereinafter described, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.*

1. *The name of the applicant is* Phillips Petroleum Company
2. *The post-office address of the applicant is* Bartlesville, Oklahoma
3. †*The flow of water which ~~has been or~~ was to have been used in second-feet is* 8
4. †*The quantity of water which has been or was to have been used in acre-feet is* XX
5. †*The water ~~has been or~~ was to have been used each year from* January 1 (Month) (Day) *to* December 31 (Month) Day) *incl.*
6. †*The water has been or was to have been stored each year from* XX (Month) (Day) *to* XX (Month) Day) *incl.*
7. *The drainage area to which source of supply belongs is* .... **(Leave blank)**
8. *The direct source of supply is* Underground water and subsurface flow of San Juan River *in* San Juan *County.*
9. †*The point*/s *of diversion as described in the original Application ~~or the point at which the water has been diverted~~ ~~is~~* are *situated at ~~a~~ point*s in Section 5, T. 41S., R. 24E as more particularly set out in the original Application No. 32773.
10. †*The water involved ~~has been or~~ was to have been used for the following purposes:* Pressure maintenance and secondary recovery purposes

Total XX *Acres.*

NOTE—If for irrigation, give legal subdivision of land and total acreage which has been or was to have been irrigated. If for other purposes, give nature, place and extent of use or proposed use.

11. †*The point at which water has been or was to have been returned to the stream channel is situated as follows:* XX

NOTE—The above space is to be filled in only when all or part of the water is returned to the natural stream or channel.

The Following Changes Are Proposed

12. *The flow of water to be changed in cubic feet per second is* No change
13. *The quantity of water to be changed in acre-feet is* XX
14. *The water will be used each year from* January (Month) 1 (Day) *to* December (Month) 31 (Day) *incl.*
15. *The water will be stored each year from* XX (Month) (Day) *to* XX (Month) (Day) *incl.*
16. *The point at which it is now proposed to divert the water is situated (See note)* See explanatory

NOTE—The "point of diversion," or "point of return," must be located by course and distance or by rectangular distances with reference to some regularly established United States land corner or United States mineral monument if within a distance of six miles of either, or if a greater distance, to some prominent and permanent natural object.

17. *The proposed diverting and conveying works will consist of* wells and conveyance pipe as explained in original Application No. 32773
18. *The cross-section of the diverting channel will be.* ~~XXXXXXXX~~ O **(Strike out ones not needed)**
19. *The nature of the diverting channel will be: ~~earth, wood~~, iron, ~~concrete~~.* **(Strike out the ones not needed)**

†Strike out written matter not needed.

December 2, 1965

Ratherford Unit, San Juan County, Utah -
Application No. 32773 - Request for Extension
of Time to Make Proof of Appropriation

Mr. R. M. Williams (2)
Legal Department

Phillips' Application No. 32773 to the State of Utah for appropriation of water to be used in the Ratherford Unit project was approved on September 5, 1961. One condition of the approval was that a proof of appropriation be submitted by February 28, 1963. Subsequently an extension was granted and the proof of appropriation is now due on February 28, 1966. It is not possible to determine at this time the quantity of water that will ultimately be required and this is to request your assistance in obtaining an additional extension of time before it is necessary to file the proof.

Attached is a copy of Mr. C. M. Boles' letter dated November 23, 1965, which transmits a copy of an unexecuted application for an extension of time for filing the proof from February 28, 1966, to February 28, 1971. Please examine the application as to form and, if it is acceptable, forward it to Mr. J. E. Chrisman, who will arrange for its execution. If it is your opinion that the legal firm of Senior and Senior should file the application, as was done previously, please so advise and the executed application will be returned to you.

Shofner Smith

JEC:gm
Attach.

cc: Messrs. C. W. Corbett
Attn. T. L. Osborne
C. M. Boles

12/8/65

FORM 32 2M 8-57

Copied for
C. M. Boles
4-18-62 EFL:mll

THE STATE OF UTAH
OFFICE OF THE STATE ENGINEER
SALT LAKE CITY

March 26, 1962

Phillips Petroleum Company
Bartlesville,
Oklahoma

Gentlemen: RE: APPROVED APPLICATION NO. a-4025

Enclosed find Application No. a-4025 which has been approved by me. This approved Application is your authority to proceed with actual construction work which, under Sections 73-3-10 and 73-3-12, Utah Code Annotated 1953, as amended, must be diligently prosecuted to completion. The water shall be put to beneficial use and proof of appropriation filed with the State Engineer, as provided in the original application as amended by this approved change Application.

Failure on your part to comply with the requirements of the statutes may result in forfeiture of your Application.

Yours truly,
Wayne D. Criddle
Wayne D. Criddle
STATE ENGINEER
403 STATE CAPITOL
SALT LAKE CITY, UTAH

ADDRESS ALL COMMUNICATIONS TO:

js
Encl: Copy of approved application

CHANGE APPLICATION APPROVED

(Form for pending original Application)

Copied for
C. M. Boles
11-3-61 SS:mll

THE STATE OF UTAH

OFFICE OF STATE ENGINEER

WAYNE D. CRIDDLE
STATE ENGINEER

SALT LAKE CITY
October 30, 1961

Issue Date: October 30, 1
Expiration Date: April 30

Phillips Petroleum Company
c/o Senior and Senior, Attorneys
#10 Exchange Place
Salt Lake City 11, Utah

Gentlemen:

RE: APPROVED APPLICATION NO. 32773 AND
CHANGE APPLICATION NO. a-4025

This is to acknowledge receipt of your Permanent Change Application No. a-4025, which proposes to change the point of diversion of 8.0 sec.-ft. of water initiated by Application No. 32773. The was to have been diverted from ten 12.75-inch O.D. wells located within S½N½NE¼ and SE¼NE¼NW¼ of Sec. 5, T41S, R24E, SLB&M. It is now proposed to divert the 8.0 sec.-ft. of water from a total of 41 wells 12.75 inches O.D, between 35 and 50 ft. deep, ten of these being the same as heretofore described and thirty-one wells to be located within NW¼ Sec. 3, N½ Sec. 4, NW¼ Sec. 5, T41S, R24E, SLB&M. The water is to be used for pressure maintenance and secondary recovery purposes as heretofore.

You have requested permission to proceed immediately with the drilling of these additional 31 wells. This letter grants you that privilege with the understanding that all risks as regards water rights are being assumed by you.

If other than new standard casing is to be used in these wells such casing must be inspected and approved by a representative from this office. All wells must be so constructed and finished that they may be readily controlled at all times, in order to prevent waste of underground water. Wells must be drilled and cased in such a manner that will prevent the infiltration of contaminated water into them.

The driller must be bonded and have a current permit from the State Engineer. Before commencing, he must give this office notice as to the day he will begin drilling. Also, within 30 days after the well has been completed or abandoned, he must file a well driller's report for each well. These reports are to contain accurate and complete information regarding the work done and become part of the files in this office pertaining to the above-numbered filings.

This is permission for a licensed driller to begin drilling your wells.

Please note that the expiration date of this letter is April 30, 1962.

Yours truly,

Wayne D. Criddle
Wayne D. Criddle
STATE ENGINEER

ds

RECEIVED
1961
SENIOR

RECEIVED
WAYNE D. CRIDDLE
STATE ENGINEER
PRODUCTION
DEPARTMENT

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

September 11, 1961

S. Smith

Phillips Petroleum Company
Bartlesville,
Oklahoma

Gentlemen: RE: APPROVED APPLICATION NO. 32773

Enclosed find Approved Application No. 32773 . This is your authority to proceed with actual construction work which, under Sections 73-3-10 and 73-3-12, Utah Code Annotated, 1953, as amended, must be diligently prosecuted to completion. The water shall be put to beneficial use and proof of appropriation made to the State Engineer on or before ------------February 28, 1961------otherwise the application will lapse.

Failure on your part to comply with the requirements of the statutes may result in forfeiture of this application.

Note error in date
ElF 9/15/61

Yours truly,

Wayne D. Criddle

ADDRESS ALL COMMUNICATIONS TO:

Wayne D. Criddle
STATE ENGINEER
STATE CAPITOL BUILDING
SALT LAKE CITY, UTAH

js
Encl: Copyof approved application

APPLICATION APPROVED

NOTICE TO APPLICANT

The approval of this Application is not a certificate of change. It is merely your authority to begin construction work, which must be diligently prosecuted to completion. To secure a certificate of change under this Application proof of change must be submitted within the time limit allowed by the State Engineer. The amount of water for which certificate will be issued will depend upon the amount of water actually put to a beneficial use, not to exceed, however, the amount of water covered by the original right. For further information write the State Engineer.

RULES AND REGULATIONS

Applicants will save time and expense by familiarizing themselves with the law before making Applications.

If the reservoir is to be located on the channel of the source from which the water is to be appropriated, it should be so stated under explanatory, and—

1. The location of the impounding dam should be described in Paragraph 16.
2. The point where the released storage will be rediverted from the natural stream should be described under explanatory in accordance with the note under Paragraph 16.

When the water is to be stored in other than the natural channel of the source from which it is to be appropriated, it should be so stated under explanatory, and—

1. The point of diversion from the supplying source should be described in Paragraph 16.
2. The intersection of the longitudinal axis of impounding dam and centerline of stream channel or drainage and a similar point where the released storage will be rediverted from a natural channel should be described under explanatory in accordance with the note under Paragraph 16.

In all cases Paragraphs 17 to 27, incl., should describe the proposed diverting and carrying works, exclusive of natural channels, even if already constructed in whole or in part.

If it is proposed to collect the water of a number of springs or other sources at a common point, said point should be described as the point of collection in Paragraph 16, and the point of diversion from each source should also be described under explanatory in accordance with the note in Paragraph 16. The quantity of water sought from each source should be indicated under explanatory, the total equaling the quantity specified in Paragraphs 12 or 13. Where the source of supply is in reality a spring area, the point of diversion is the point where the water is collected; in such case the exterior boundary of the spring area must be described under explanatory by metes and bounds and located with reference to the same point as used in describing the point of collection and as outlined by the note under Paragraph 16.

No enlargement of an original water right may be made by a change Application, either as to quantity of water covered, period of use or otherwise.

When there are two or more coapplicants the Application must be accompanied by a power of attorney.

The applicant's permanent address should be given in Paragraph 2, and the State Engineer notified promptly of any change in address; otherwise applicant may lose rights initiated by Application by failing to receive notices sent from the State Engineer's office.

No Application or other paper pertaining to an Application will be marked received unless accompanied with the required filing fee.

Applications accepted and numbered by the State Engineer, when returned to applicant for correction or additions, must be amended with red ink. Erasures must not be made, but any matter may be eliminated by running a red line through it. Corrected Applications must be resubmitted to the State Engineer's office, within sixty days from the date of State Engineer's letter returning Application for correction; otherwise the priority of the right to change will be brought down to date corrected Application is resubmitted.

Applicants will be informed by the State Engineer's office when cost of publishing notice of Application is due, and must advance cost within sixty days after date of notice, otherwise Application will lapse.

Fees Required by Law Payable to State Engineer

For examining and filing Applications for change of point of diversion, place and nature of use.....$2.50

For approving and recording Applications for change of point of diversion, place and nature of use.....$2.50

For filing written proof of change.....$1.00

For examining maps, profiles and drawings that are part of the proof of change.....$5.00

For issuing certificate of change.....$1.00

NOTE—In addition to the above fees applicants must pay the cost of publication of "Notice to Water Users" concerning the proposed change.

20. *The length of the diverting channel, exclusive of laterals, will be* 15,000 *feet*
(If an existing channel is used give only the length of that part used under this Application)

21. *The top width of the diverting channel will be (if a ditch)* XX *feet*

22. *The bottom width of the diverting channel will be (if a ditch)* XX *feet*

23. *The depth of water in the diverting channel will be (if a ditch)* XX *feet*

24. *The width of diverting channel will be (if a flume)* XX *feet*

25. *The depth of water in the diverting channel will be (if a flume)* XX *feet*

26. *The diameter of the diverting channel will be (if a pipe)* 42.75 inches C.D. *inches*

27. *The grade of the diverting channel will be* 2.4 *feet per thousand*

28. *The point at which it is proposed to return the water is situated* (See note under 16)
XX

29. *The water is to be used* for the same purposes as specified in the original Application No. 32773

Total XX *acres.*

NOTE—If for irrigation, give legal subdivisions of land to be irrigated. If for other purposes, give place and extent of proposed use. If for power give number, size and make of wheels, head under which they will operate, total H. P. to be developed and place where power will be used.

30. *The character of the soil to be irrigated is* XX ; *subsoil* XX

NOTE—Number 30 is to be filled in only when proposed change is for irrigation.

31. *If paragraph 12 designates that only part of the right described in paragraph 1 to 11 inclusive is to be changed, designate the status of the water so affected by this change as to its being abandoned or used as heretofore.*

EXPLANATORY

NOTE—Paragraph 13 on page 1 must not be used except when storage is contemplated; in such case Paragraph 14 should indicate the time in each year during which the water will be released and used. The lands to be inundated by the reservoir must be described in the space below this note as nearly as may be and by government subdivisions if upon surveyed land, and the area of the reservoir when at full stage should be given in acres; the height of the impounding dam must also be specified.

The following additional facts are set forth in order to define more clearly the full purpose of the proposed change:

The original Application No. 32773 specified _____ points of diversion situate in Section 5, T. 41S., R. 24E., San Juan County, Utah, and bears the following notation: "Diversion will be from one or more or all of the above diversion points. Water from the several diversion points will be commingled in conveyance works or in use. The applicant proposes to divert water from the San Juan River partly or wholly by means of infiltration wells, pits or horizontal galleries, dug in the alluvial fill within the stream valley. The exact number, depth, diameter, spacing and yield of such wells, pits or galleries will be determined during the project construction; however, the aggregate withdrawal rate will not exceed that specified." The purpose of this Change Application is to secure approval of additional alternative points of diversion as hereinafter specified without waiver of any rights under the original Application and without increase in the quantity of water applied for or the ultimate objective and purpose of the original Application.

See "Explanatory" continued on attached sheet.

PHILLIPS PETROLEUM COMPANY

Signature of Applicant.

BY _____
Vice-President of Production

EXPLANATORY - contd. from printed form.

The additional alternative points of diversion from the source are in Section 3, T. 41S., R. 24E., San Juan County, Utah, situate at points as follows:

Diversion Point	From West Line	From North Line	Subdivision
1	100'	1780'	SW¼NW¼
2	365'	1780'	"
3	630'	1770'	"
4	900'	1620'	"
5	1170'	1620'	"
6	1400'	1600'	SE¼NW¼
7	1530'	1600'	"
8	1900'	1600'	"
9	2150'	1620'	"
10	2400'	1700'	"
11	2640'	1750'	"
12	2900'	1810'	SW¼NE¼
13	3180'	1900'	"
14	3400'	1950'	"
15	3650'	2050'	"
16	3870'	2225'	"
17	4100'	2450'	SE¼NE¼
18	4250'	2700'	NE¼SE¼
19	4380'	2975'	"
20	4420'	3250'	"

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Phillips Petroleum Company

3. ADDRESS OF OPERATOR: P.O. Box 2920, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1860' FSL, 1820' FEL (NW,SE)✓
At proposed prod. zone: Same

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-603-407

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo

7. UNIT AGREEMENT NAME: SW-I-4192

8. FARM OR LEASE NAME: Ratherford Unit ✓

9. WELL NO.: #29-33

10. FIELD AND POOL, OR WILDCAT: Greater Aneth ✓

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 29-T41S-R24E

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 6 miles south of Montezuma Creek, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1820' West of Ratherford Unit lease line

16. NO. OF ACRES IN LEASE: 1904 Acres

17. NO. OF ACRES ASSIGNED TO THIS WELL: 40 acres

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 1080' north of #29-34

19. PROPOSED DEPTH: 5700' Desert Creek

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 4902' ungraded ground

22. APPROX. DATE WORK WILL START*: Sept. 1983

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 ½"	13 3/8"	48#	100'	150 sx Class B (to surface)
12 ¼"	9 5/8"	36#	1600'	400 sx HLC & 400 sx Class B (surface)
8 ½"	7"	20#, 23#, & 26#	5700' ✓	1,000 sx est ✓ (T.O.C. approx 2000 ft.)

Approval is requested to drill Ratherford Unit #29-33, a Desert Creek Development oil well, to increase the ultimate recovery from the Ratherford Unit.

BOP equipment will be operated daily and tested weekly.

RECEIVED
SEP 06 1983
DIVISION OF
OIL, GAS & MINING

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 9/7/83
BY:

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED A. E. Stuart TITLE Area Manager DATE August 31, 1983

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

5-BLM, Farmington, N.M.
2-Utah O&G CC-S.L.C., Utah ✓
1-J.L. Whitmire (r) T.C. Doughty
1-G.W. Berk
1-T.M. Isaacs

*See Instructions On Reverse Side

Form 9-331C & Location Plat only - Barbara Conner
Form 9-331C & Location Plat only- R. M. Coffelt

COMPANY PHILLIPS PETROLEUM COMPANY

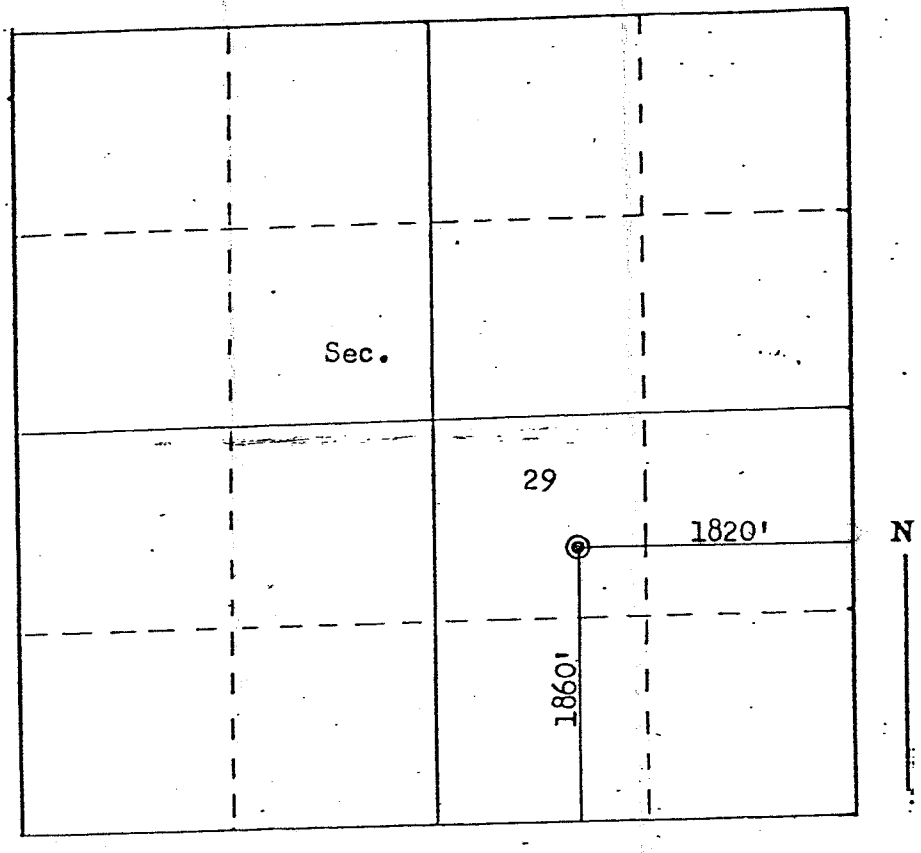
LEASE RATHERFORD UNIT WELL NO. 29-33

SEC. 29, T 41S, R 24E

SAN JUAN COUNTY, UTAH

LOCATION 1860'FSL 1820'FEL

ELEVATION 4902 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SEAL:

Registered Land Surveyor.
#3950
FRED S. KERR, JR.

SURVEYED August 8, 19 83

FARMINGTON, N. M.

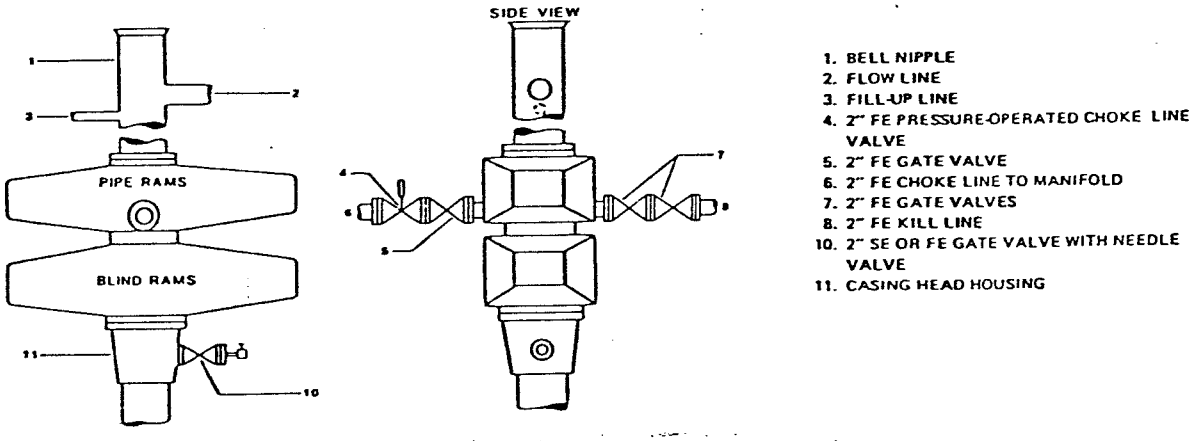


Figure 7-10. Standard Hydraulic Blowout Preventer Assembly (2 M or 3 M Working Pressure) Alternative 3 (without Drilling Spool)

BLOWOUT PREVENTER TESTING PROCEDURE

A. INITIAL INSTALLATION TEST FOR INSTALLATIONS AS SHOWN ON FIGURE NO. 7 - TWO RAM UNITS

After all blowout preventers, regular choke lines, valves, bell nipples, and flow lines are rigged up, the following steps are to be carried out with no exceptions: (Emergency choke and kill lines are not to be connected below the bottom preventer at this time.)

reparations for Test teps 1-9

1. Inspect all flanges to see if all bolts are in place and tight.
2. Check all opening and closing lines to preventers to see if they are correctly placed, hooked up, and tight.
3. Check to see that all control valves are properly marked.
4. Open bradenhead valves and wash inside of preventers with water from the top. No lines are to be connected to the bradenhead at this time.
5. Connect water into suction of mud pump and pump water through kill line and out bradenhead valves until water clears up.
6. Connect test line in place of kill line.

A. INITIAL INSTALLATION TEST FOR INSTALLATIONS AS SHOWN ON FIGURE NO. 7
TWO RAM UNITS (Contd.)

7. Connect kill line to one bradenhead valve and open valve.

8. Close other bradenhead valve.

9. Fill preventers with water.

10. Close blind rams with 1,500 psi.

Casing Blind Ram and Bradenhead Test Steps 10-24

11. Check closing line and preventer for leaks.

12. Pressure up casing with mud pump to pressure required to test casing using water. Hold for 10 minutes.

13. Check bradenhead, bradenhead valve flanges, and blind rams for leaks.

14. Install a pressure gauge on the bradenhead valve opposite where the kill line is tied on.

15. Open bradenhead valve to read casing pressure.

16. Close bradenhead valve on side where kill line is tied on.

17. Release pressure on kill line.

18. Disconnect kill line from bradenhead valve.

19. Check bradenhead valve for leaks on the side where the kill line was disconnected. See that casing pressure has not dropped below the required test pressure.

20. Remove pressure gauge and bleed down casing.

21. Close bradenhead valve(s).

22. Open blind rams with 1,500 psi.

23. Check opening line and preventer for leaks.

24. Disconnect kill line from bradenhead valve and open both bradenhead valves.

BOP Stack and Choke Line Test Steps 25-38

25. Run test plug in on a joint of drill pipe, set in seat.

NOTE: Test plug to be fabricated so that there will be enough clearance between plug and pipe rams to clear tool joint when closed on joint of drill pipe made up in plug. The plug must be drilled so there is communication between inside of drill pipe and top of plug above seal surface.

A. INITIAL INSTALLATION TEST FOR INSTALLATIONS AS SHOWN ON FIGURE NO. 7 TWO RAM UNITS (Contd.)

26. Install safety valve and kelly on top of drill pipe.

27. Fill preventers with water.

28. Open all valves on choke lines and check to see that water is flowing through each outlet. Let run until clear. Open valves on kill line side of spool.

29. Close outside valves on choke lines making sure they are full of water and have no trapped air.

30. Refill preventers if necessary.

31. If Hydril is used in place of upper ram type preventer, close 1" plug valve on closing line. Test to 1,500 psi. Inspect valve for leaks. Release pressure. Open valve.

32. Close pipe rams or Hydril with 1,500 psi.

33. Check closing line and preventer for leaks.

34. Open stand pipe valve, kelly cock, and safety valve, and fill kelly with water.

35. Close kelly cock.

36. If Hydril is used, reduce closing pressure to that recommended on page 56. Closing pressure may be increased as required to effect a seal up to a maximum of 1,500 psi.

37. Pressure up to working pressure of preventers through test line. For maximum Hydril packing unit life, as the test pressure builds up, reduce the closing pressure and later apply opening pressure per applicable schedule starting on page 57, provided a schedule is listed for the Hydril in use. Hold test pressure for 10 minutes.

38. Check all valves, flanges, and seals that are under pressure for leaks and tighten if necessary. Check test plug for leak.

Choke and Kill Valve Tests Steps 39-55

39. Close second valve from hole on choke line. Open outside valve on full opening line. Hold pressure for one minute.

40. Check to see if valve leaks.

41. Close inside valve on choke line. Open second valve out on choke line. Hold pressure for one minute.

42. Check to see if valve leaks.

A. INITIAL INSTALLATION TEST FOR INSTALLATIONS AS SHOWN ON FIGURE NO. 7 TWO RAM UNITS (Contd.)

43. Close safety valve and open kelly cock.

44. Check safety valve for leaks.

45. Close inside valve on kill line side. Open inside valve on choke line side. Hold pressure for one minute.

46. Check to see if valve leaks.

47. Close second valve out on kill line. Open inside valve on kill line. Hold pressure for one minute.

48. Check to see if valve leaks.

49. Open second valve out on kill line. Close inside valves on kill line and choke line.

50. Disconnect test line; connect kill line.

51. Open pipe rams (or Hydril) with 1,500 psi.

52. Check opening line and preventer for leaks.

53. Pull plug out of hole.

54. Close bradenhead valves.

55. Record test on drilling report.

B. RAM CHANGE TEST FOR INSTALLATIONS AS SHOWN ON FIGURE NO. 7 OR 8 - TWO RAM UNITS

If Hydril is used in place of upper ram type preventer, ram change test is not required since no change will be made in preventer assembly to run casing.

Preparations Steps 1-2

1. After getting out of hole, open choke line valves and drain mud out of preventers. No lines are to be connected to Figure 7 bradenhead valves at this time.

2. Wash inside of preventers from top with water.

Ram Change Steps 3-9

3. Close blind rams.

4. Open bonnets or doors on upper ram type preventer.

5. Remove drill pipe rams.

6. Install rams to fit casing.

B. RAM CHANGE TEST FOR INSTALLATIONS AS SHOWN ON FIGURE NO. 7 OR 8 - TWO RAM UNITS (contd.)

7. Close bonnets or doors, checking all seals and "O" rings.

8. Tighten up all bolts and inspect preventer to see that bonnets or doors are closed, steel to steel.

9. Open blind rams.

Casing Ram Test Steps 10-22

10. Install test plug and test line on extra joint of casing the same size that is to be run. Casing joint used must be of sufficient strength to withstand test pressures. The crossover connections used to get from casing joint to test plug must be short enough to permit the casing rams to close against casing.

11. Set test plug in casing spool.

12. Fill preventers with water.

13. Close casing rams.

14. Purge air from casing joint.

15. Pressure up through casing joint to working pressure of preventers. Hold for 10 minutes.

16. Check for leaks in all flanges and seals that hold pressure, especially bonnet or door seals on preventer changed.

17. Release pressure.

18. Open casing rams.

19. Pull test plug out of hole.

20. Close choke line valve.

21. Change sign on valve on blowout preventer closing manifold that controls casing rams to indicate casing rams instead of drill pipe rams.

22. Record test and ram changes in drilling report.

C. WEEKLY TEST PROCEDURE FOR INSTALLATIONS AS SHOWN ON FIGURE 7 - TWO RAM UNITS

Preparations for Test Steps 1-10

1. Inspect all flanges to see if all bolts are in place and tight.

2. Check all opening and closing lines to preventers to see if they are correctly placed, hooked up, and tight.

C. WEEKLY TEST PROCEDURE FOR INSTALLATIONS AS SHOWN ON FIGURE 7 - TWO RAM UNITS (contd.)

3. Remove kill line and install test line in flange outside of second valve on the kill line side of the drilling spool.

4. Open valves on bradenhead and wash inside of preventers with water from the top. No lines are to be connected to the bradenhead at this time.

5. Run test plug in on a joint of drill pipe and set in seat.

6. Install safety valve and kelly on top of drill pipe.

7. Fill preventers with water.

8. Open all valves on choke lines and check to see that water is flowing through each choke line and full opening line. Let run until it clears up.

9. Close all outside valves on choke line, making sure they are full of water and do not have air trapped in them.

10. Refill preventers if necessary.

BOP Stack and Kelly Cock Test -Steps 11-17

11. Close pipe rams (or Hydril, if used in place of upper ram type preventer).

12. Check closing line and preventer for leaks.

13. Open stand pipe valve, kelly cock, and safety valve, and fill kelly with water.

14. Close kelly cock.

15. If Hydril is used, reduce closing pressure to that listed on page 56. This may be increased as required up to a maximum of 1,500 psi.

16. Pressure up to 1/2 working pressure of preventers. For maximum Hydril packing unit life, as the test pressure builds up, reduce the closing pressure and later apply opening pressure per applicable schedule starting on page 57, provided a schedule is listed for the Hydril in use. Hold test pressure for 10 minutes.

Safety Valve Test Steps 18-24

17. Check for leaks.

18. Close safety valve and open kelly cock.

19. Check safety valve for leaks.

C. WEEKLY TEST PROCEDURE FOR INSTALLATIONS AS SHOWN ON FIGURE 7 - RAM UNITS (Contd.)

20. Release pressure.

21. Open pipe rams (or Hydril)

22. Pull plug out of hole.

23. Close bradenhead valves.

24. Record test on drilling report.

BLOWOUT PREVENTER TESTING PROCEDURE

A. INITIAL INSTALLATION TEST FOR INSTALLATIONS AS SHOWN ON FIGURE NO. 8 TWO RAM UNITS - LOW SUBSTRUCTURE

After all blowout preventers, choke lines, valves, bell nipples, and flow lines are rigged up, the following steps are to be carried out with no exceptions:

Preparations Steps 1-10

1. Inspect all flanges to see if all bolts are in place and tight.
2. Check all opening and closing lines to preventers to see if they are correctly placed, hooked up, and tight.
3. Check to see that all control valves are properly marked.
4. Remove kill line and open all valves on bradenhead.
5. Open all valves on choke manifold and wash inside of preventers with water from the top. Check to see that water is flowing through each choke line and kill line.
6. Close outside valves on kill line side and on choke lines.
7. Install test line in flange on outside of second valve on kill line side of bradenhead.
8. Fill preventers.
9. Open outside valve on kill line side and pump through test line until all air is purged.

Kill Line Outlet Valves Test Steps 10-16

10. Close inside valve on kill line side.
11. Pressure up to working pressure of preventers. Hold for one minute.
12. Check for leaks.

RU 1-B

FORM 31-B

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RIGHTS

DEE C. HANSEN
STATE ENGINEER

JOHN BENE
DEPUTY

442 STATE CAPITOL
SALT LAKE CITY, UTAH 84114
(801) 328-6071

DIRECTING ENGINEERS
HAROLD D. DONALDSON
DONALD C. NORSETH
~~XXXXXXXXXXXXXX~~
Stanley Green

May 28, 1974

Rutherford Unit W. S. well.

Phillips Petroleum Company
Box 2920
Casper, Wyoming 82601

Gentlemen:

RE: Change Appl. No. a-7804 (09-281)

Enclosed is Change Application No. a-7804 (09-281) which has been approved. The approved change application is amendatory and serves only to affect a correction to Application No. 32773 a-4025 on which an election to file a water user's claim has been submitted.

As soon as possible, engineers of this office will make the necessary field investigations and will prepare a water user's claim which will be entered in the adjudication of water rights in your area.

Yours truly,

Dee C. Hansen

Dee C. Hansen
State Engineer

jb

Enc.: Copy of Approved Application

PHILLIPS PETROLEUM CO.
CASPER AREA
E & P DEPT.
Recd: JUN 3 1974

Send To	Info.	Hdl.
Supt.		
Oper. Supt.		
Dist. Engr.		
Div. Mgr.		
Engrs.		
Drlg.		
S. [illegible]		
Send copy to		

CHANGE APPLICATION APPROVED

(Form for Pending Original Application)

Area Code 09-281

Form No. 107 3-66

CHANGE APPLICATION NO. a-7504

Application for Permanent Change of Point of Diversion Place and Nature of Use of Water

STATE OF UTAH

Please clearly and correctly complete the information requested below which defines the right or rights being changed. (Type or clearly print.)

For the purpose of obtaining permission to permanently change: the point of diversion [X], place [ ], or nature of use [ ], of water rights acquired by Application No. 32773 (09-281)
(Give Number of Application, certificate of appropriation, title and date of Decree or other identification of right.)

If the right described has been amended by a previous approved change application, give the number of such change application. No. a-4025

1. The name of the applicant is Phillips Petroleum Company
2. The post-office address of the applicant is Box 2920, Casper, Wyoming 82601
3. The flow of water which has been or was to have been used in second-feet is 8.0
4. The quantity of water which has been or was to have been used in acre-feet is
5. The water has been or was to have been used for and during periods as follows:

Oil Field Pressure Maintenance and (purpose)	from (month)	(day)	to (month)	(day)	incl.
Secondary Recovery Uses (purpose)	from January 1 (month)	(day)	to December 31 (month)	(day)	incl.
and stored each year (if stored)	from (month)	(day)	to (month)	(day)	incl.

6. The direct source of supply is 41 Wells in San Juan County.
(well, spring, stream, drain, river; if other explain)
7. The point or points of diversion See Separate Sheet
(Must be the same as that of right being changed unless a previous change has been filed and approved. Then use the point or points approved in the previous change.)
8. Diversion works:
If a well give diameter and depth 12 3/4" diameter wells, 35-50 ft. deep
If a dam and reservoir give height, capacity, and area inundated
If other give type of diversion facility
9. The water involved has been or was to have been used for the following purposes in the following described legal subdivisions: (If used for irrigation, state sole or supplemental supply, and describe other supplemental rights.)
Irrigation
Total acres to be irrigated
Stockwatering (number and kind)
Domestic (number of families and/or persons, etc.)
Other See Separate Sheet
10. The point at which water has been or was to have been returned to the stream channel is situated as follows: (Please describe method of return.)
Note: Paragraph 10 is to be completed only when all or part of the water is returned to the natural stream or channel.

The Following Changes Are Proposed

11. The flow of water to be changed in cubic feet per second is Same as heretofore
12. The quantity of water to be changed in acre-feet is

13. The water will be used each year for:

Same as heretofore from ____ to ____ incl.
(purpose) (month) (day) (month) (day)

____ from ____ to ____ incl.
(purpose) (month) (day) (month) (day)

and stored each year (if stored) from ____ to ____ incl.
(month) (day) (month) (day)

14. It is now proposed to divert the water from 23 Wells
(i.e., spring, spring area, stream, river, drain, well, etc.)

at a point(s) as follows: See Separate Sheet

NOTE: The "point of diversion," or "point of return," must be located by course and distance or by rectangular distances with reference to some regularly established United States land corner or United States mineral monument if within a distance of six miles of either, or if a greater distance to some prominent and permanent natural object. A spring area must also be described by metes and bounds.

15. The proposed diverting and conveying works will consist of: (if a well, state diameter and depth thereof)

2D - 16-inch diameter wells, 35-50 ft. deep

16. If water is to be stored, give capacity of reservoir in acre-feet ____ height of dam ____

area inundated in acres ____ legal subdivisions of area inundated ____

17. The water is to be used for the following purposes in the following described legal subdivisions: (if used for irrigation, state sole or supplemental supply, and describe other supplemental rights.)

Irrigation ____

Total acres to be irrigated ____

but limited to the sole irrigation supply of ____ acres.

Stockwatering (number and kind) ____

Domestic (number of families and/or persons, etc.) ____

Other Same as heretofore

18. If paragraphs 11 and 12 designate that only part of the right described in paragraphs 1 to 10 inclusive is to be changed, designate the status of the water so affected by this change as to its being abandoned or used as heretofore.

EXPLANATORY

The following additional facts are set forth in order to define more clearly and completely the full purpose of the proposed change: This is an Amendatory Change Application filed to correct the location of the points of diversion.

RECEIVED
MAR 8 1974
STATE ENGINEER
PRICE, UTAH

The undersigned hereby acknowledges that even though he may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the State Enginer's Office, all responsibility for the accuracy of the information contained therein, at the time of filing, rests with the applicant.

Forrest L. Morgan
Signature of Applicant

PHILLIPS PETROLEUM COMPANY
Change Application [illegible] (09-281) a-4 [illegible]
Item 7 - Points of Diversion

Well No.	Well Location	Well No.	Well Location
1	S. 1000 [illegible] & W. [illegible] ft.	22	S. 1550 ft. & E. 1850 ft.
2	S. 1000 [illegible] W. 450 ft.	all from NW	Cor. Sec. 3, T41S, R24E.
3	S. 1000 ft. & W. [illegible] ft.	23	S. 960 ft. & E. 150 ft.
4	S. 1000 ft. & W. 1050 ft.	24	S. 950 ft. & E. 450 ft.
5	S. 1000 ft. & W. 1350 ft.	25	S. 925 ft. & E. 750 ft.
6	S. 1000 ft. & W. 1650 ft.	26	S. 910 ft. & E. 1050 ft.
7	S. 1000 ft. & W. [illegible] ft.	27	S. [illegible] ft. & E. [illegible]
8	S. 1000 ft. & W. 2250 ft.	28	S. 890 ft. & E. 1650 ft.
9	S. 1000 ft. & W. 2550 ft.	29	S. 850 ft. & E. 1950 ft.
10	S. 1000 ft. & W. 2850 ft.	30	S. 825 ft. & E. 2250 ft.
11	S. 900 ft. & W. 3125 ft.	31	S. 895 ft. & E. 2540 ft.
~~12~~	~~S. 800 ft. & W. 3400 ft.~~	~~32~~	~~S. 1000 ft. & E. 2795 ft.~~ DELETE FC
13	S. 700 ft. & W. 3700 ft.	33	S. 1210 ft. & E. 3000 ft.
14	S. 610 ft. & W. 3995 ft.	34	S. 1420 ft. & E. 3200 ft.
15	S. 500 ft. & W. 4280 ft.	35	S. 1620 ft. & E. 3410 ft.
all from NE Cor. Sec. 5, T41S, R24E		36	S. 1710 ft. & E. 3710 ft.
16	S. 1700 ft. & E. 50 ft.	37	S. 1760 ft. & E. 4000 ft.
17	S. 1675 ft. & E. 350 ft.	38	S. 1800 ft. & E. 4300 ft.
18	S. 1650 ft. & E. 650 ft.	39	S. 1780 ft. & E. 4600 ft.
19	S. 1610 ft. & E. 950 ft.	40	S. 1740 ft. & E. 4900 ft.
20	S. 1590 ft. & E. 1250 ft.	41	S. 1720 ft. & E. 5200 ft.
21	S. 1575 ft. & E. 1550 ft.	all from NW Cor. Sec. 4, T41S, R24E.	

Item 9 - Place of Use: Ratherford Unit Greater Aneth Oil Field; S½ Sec. 1; SE¼ Sec. 2; E½ Sec. 11; Sec. 12; Sec. 13; E½ Sec. 14; NE¼ Sec. 24, T41S, R23E, SLB&M. Secs. 3-10; W½ Sec. 11; W½ Sec. 14; Secs. 15-21; NW¼ & W½SW¼ Sec. 22; W½NE¼, NW¼, W½SW¼ Sec. 28; Secs. 29-30; N½ Sec. 31; N½ Sec. 32, T41S, R24E, SLB&M.

Item 14 - New Points of Diversion

Well No.
1 S. 950 ft. & W. 148 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M. (D-41-24)5aad
2 S. 1014 ft. & W. 442 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M. (D-41-24)5aad
3 S. 1007 ft. & W. 741 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M. (D-41-24)5aac
4 S. 1010 ft. & W. 592 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M. (D-41-24)5aad
5 S. 982 ft. & W. 294 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M. (D-41-24)5aad
6 S. 887 ft. & W. 2 ft. from NE Cor. Sec. 5, T41S, R24E, SLB&M. (D-41-24)5aad
(D-41-24)4bbc 7 S. 863 ft. & E. 145 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M. ~~(D-41-24)5aad~~
(D-41-24)4bbc 8 S. 843 ft. & E. 293 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M. ~~(D-41-24)5aad~~
(D-41-24)4bbd 9 S. 818 ft. & E. 440 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M. ~~(D-41-24)5aad~~
(D-41-24)4bbc 10 S. 803 ft. & E. 590 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M. ~~(D-41-24)5aad~~
(D-41-24)4bbd 11 S. 789 ft. & E. 739 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M. ~~(D-41-24)5aac~~
~~12 S. 777 ft. & E. 939 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M.~~ DELETE FCM
(D-41-24)4bad 13 S. 803 ft. & E. 1137 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M ~~(D-41-24)5~~
[illegible] 14 S. 802 ft. & E. 1334 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M.
[illegible] 15 S. 759 ft. & E. 1529 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M.
[illegible] 16 S. 715 ft. & E. 1725 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M.
[illegible] 17 S. 672 ft. & E. 1920 ft. from NW Cor. Sec. 4, T41S, R24E, SLB&M.
18 NO WELL
[illegible] 19 S. 1792 ft. & W. 352 ft. from NE Cor. Sec. 4, T41S, R24E, SLB&M.
[illegible] 20 S. 1792 ft. & W. 952 ft. from NE Cor. Sec. 4, T41S, R24E, SLB&M.
21 NO WELL
[illegible] 22 S. 1792 ft. & W. 652 ft. from NE Cor. Sec. 4, T41S, R24E, SLB&M.
[illegible] 23 S. 1714 ft. & W. 1545 ft. from NE Cor. Sec. 4, T41S, R24E, SLB&M.

RECEIVED MAR 8 1974 STATE ENGINEER PRICE, UTAH

(This page not to be filled in by applicant)

STATE ENGINEER'S ENDORSEMENTS

1. MAR. 8, 1974 Change Application received ~~over counter~~ by mail in State Engineer's office by WCK

2. .... Priority of right to make change brought down to, on account of........

3. Mar 13, 1974 Fee for filing Application $65.00, received by [illegible], Receipt No. [illegible]

4. March 13, 1974 Application microfilmed by........ Roll No. 709 and indexed by [illegible]

5. 4/16/74 Application platted by WO See following page for location

6. MAR. 8, 1974 Application examined by WCK

7. .... Application returned, with letter, to........ for correction

8. .... Corrected application resubmitted over counter / by mail to State Engineer's Office........

9. MAR. 8, 1974 Application approved for advertisement by WCK

10. MAR 28 1974 Notice to water users prepared by [illegible]

11. APR 4 1974 Publication began, was completed APR 18 1974

Notice published in San Juan Record

12. APR 3 1974 Proof slips checked by [illegible]

13. .... Change Application protested by........

April 24, 1974 [illegible] 144 [illegible]

14. NOV. 16, 1971 Field Examined by WCK & LG

15. MAY 20, 1974 Application designated for approval ~~rejection~~ by WCK SG

16. 5-28-74 Change Application copied jb proofread by........

17. 5-28-74 Change Application approved ~~rejected~~ and returned to applicant........

This application is approved on the following conditions:

1. Actual construction work necessitated by proposed change shall be diligently prosecuted to completion.
2. Proof of hange shall be submitted to the State Engineer's office by under 32773
3. This change is subject to all conditions imposed on the approval of the original application or right

Dee C. Hansen

Dee C. Hansen, State Engineer

18. .... Time for making proof of change extended to........

19. .... Proof of change submitted.

20. .... Certificate of change No........, issued.

I hereby certify that the foregoing is a true copy of the Application by .... to change the point of diversion, place and nature of use of water as shown, with endorsements thereon, on the records of my office on the date given below.

Salt Lake City, Utah ...., 19...

State Engineer

Change Application No. a-7804

OPERATOR Phillips Petroleum Co DATE 9/7/83

WELL NAME Rutherford Unit #29-33

SEC NW SE 29 T 41S R 24E COUNTY San Juan

43-037-30932
API NUMBER

Indian
TYPE OF LEASE

POSTING CHECK OFF:

☐ INDEX ☐ MAP ☐ HL

☐ NID ☐ ☐ PI

PROCESSING COMMENTS:
Unit Well
Water ok

✓ CHIEF PETROLEUM ENGINEER REVIEW:
9/7/83 - Unit

APPROVAL LETTER:

SPACING: ☑ A-3 Rutherford Unit (UNIT) ☐ c-3-a _____ (CAUSE NO. & DATE)

☐ c-3-b ☐ c-3-c

SPECIAL LANGUAGE:

- [x] RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.
- [x] AUTHENTICATE LEASE AND OPERATOR INFORMATION
- [x] VERIFY ADEQUATE AND PROPER BONDING
- [x] AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.
- [ ] APPLY SPACING CONSIDERATION
  - [ ] ORDER _____
  - [x] UNIT Rutherford
  - [ ] c-3-b
  - [ ] c-3-c
- [x] CHECK DISTANCE TO NEAREST WELL.
- [x] CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.
- [x] IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER
- [x] IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

September 7, 1983

Phillips Petroleum Company
P. O. Box 2920
Casper, Wyoming 82602

RE: Well No. Ratherford Unit 29-33
NWSE SEc. 29, T. 41S, R. 24E
1860' FSL, 1820' FEL
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

RONALD J. FIRTH - Chief Petroleum Engineer
Office: 533-5771
Home: 571-6068

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30932.

Sincerely,

R. J. Firth
Chief Petroleum Engineer

RJF/as
cc: Branch of Fluid Minerals (2)
BIA
Encl.

9-331
1977

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☐ other leadline ✓
2. NAME OF OPERATOR: Phillips Petroleum Company
3. ADDRESS OF OPERATOR: P.O. Box 2920, Casper, WY 82602
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
   AT SURFACE: 1860' FSL, 1820' FEL (NW SE)
   AT TOP PROD. INTERVAL:
   AT TOTAL DEPTH:
5. LEASE: 14-20-603-407
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo
7. UNIT AGREEMENT NAME: SW-I-4192
8. FARM OR LEASE NAME: Ratherford Unit
9. WELL NO.: 29-33
10. FIELD OR WILDCAT NAME: Greater Aneth
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 29-T41S-R24E
12. COUNTY OR PARISH: San Juan
13. STATE: Utah
14. API NO.: 43-037-30932
15. ELEVATIONS (SHOW DF, KDB, AND WD)

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	☐		☐
FRACTURE TREAT	☐		☐
SHOOT OR ACIDIZE	☐		☐
REPAIR WELL	☐		☐
PULL OR ALTER CASING	☐		☐
MULTIPLE COMPLETE	☐		☐
CHANGE ZONES	☐		☐
ABANDON*	☐		☐
(other) Install leadline			

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Approval is requested, contingent on securing Archaeological clearance, to install a leadline as shown on the attached plat A-1A. The leadline will connect Ratherford Unit #29-33 well to Satellite 20. This proposed leadline routing is a revision from that shown in the approved APD.

RECEIVED
NOV 15 1983
DIVISION OF
OIL, GAS & MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

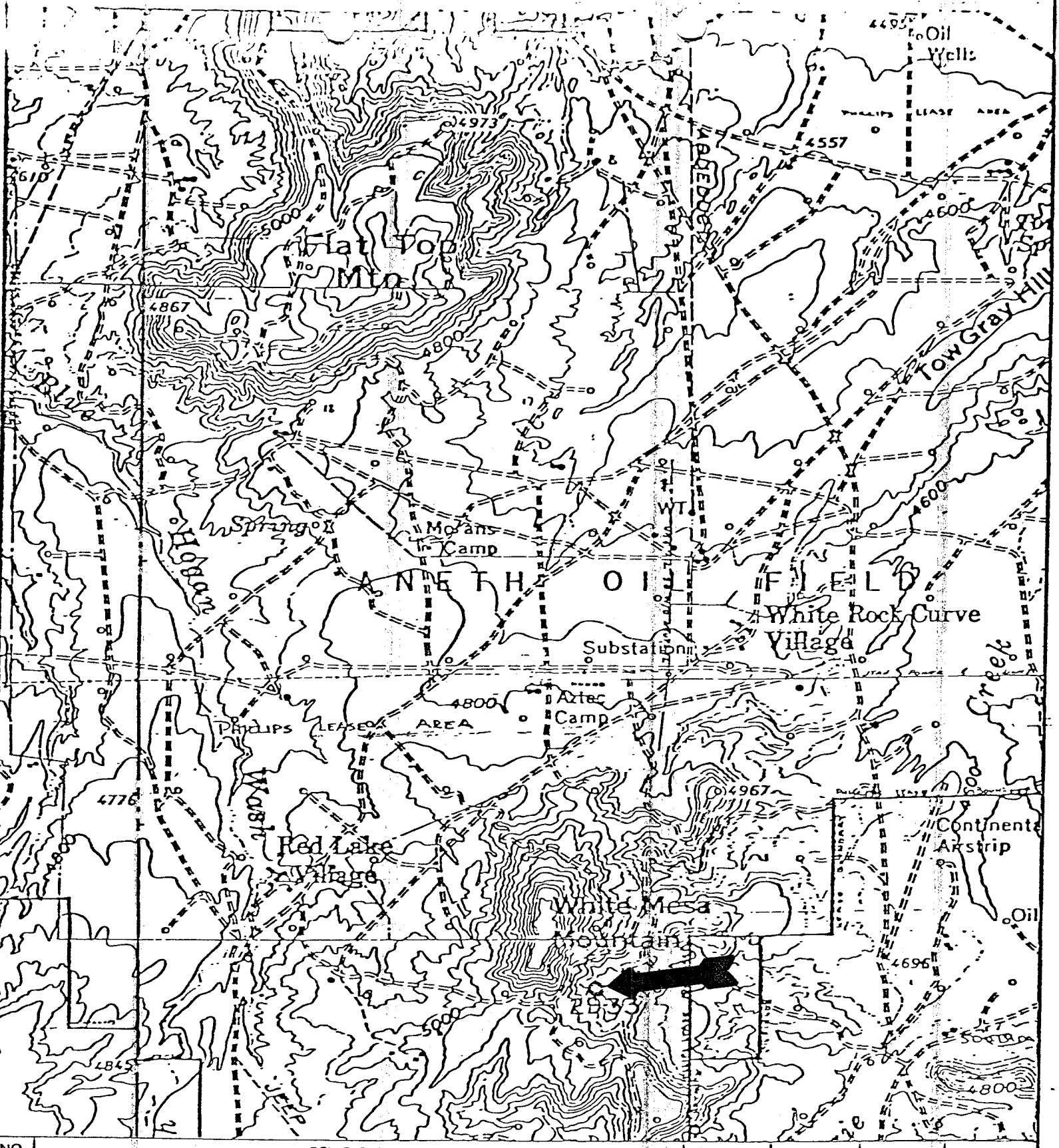
SIGNED A. E. Stuart TITLE Area Manager DATE November 10, 1983

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

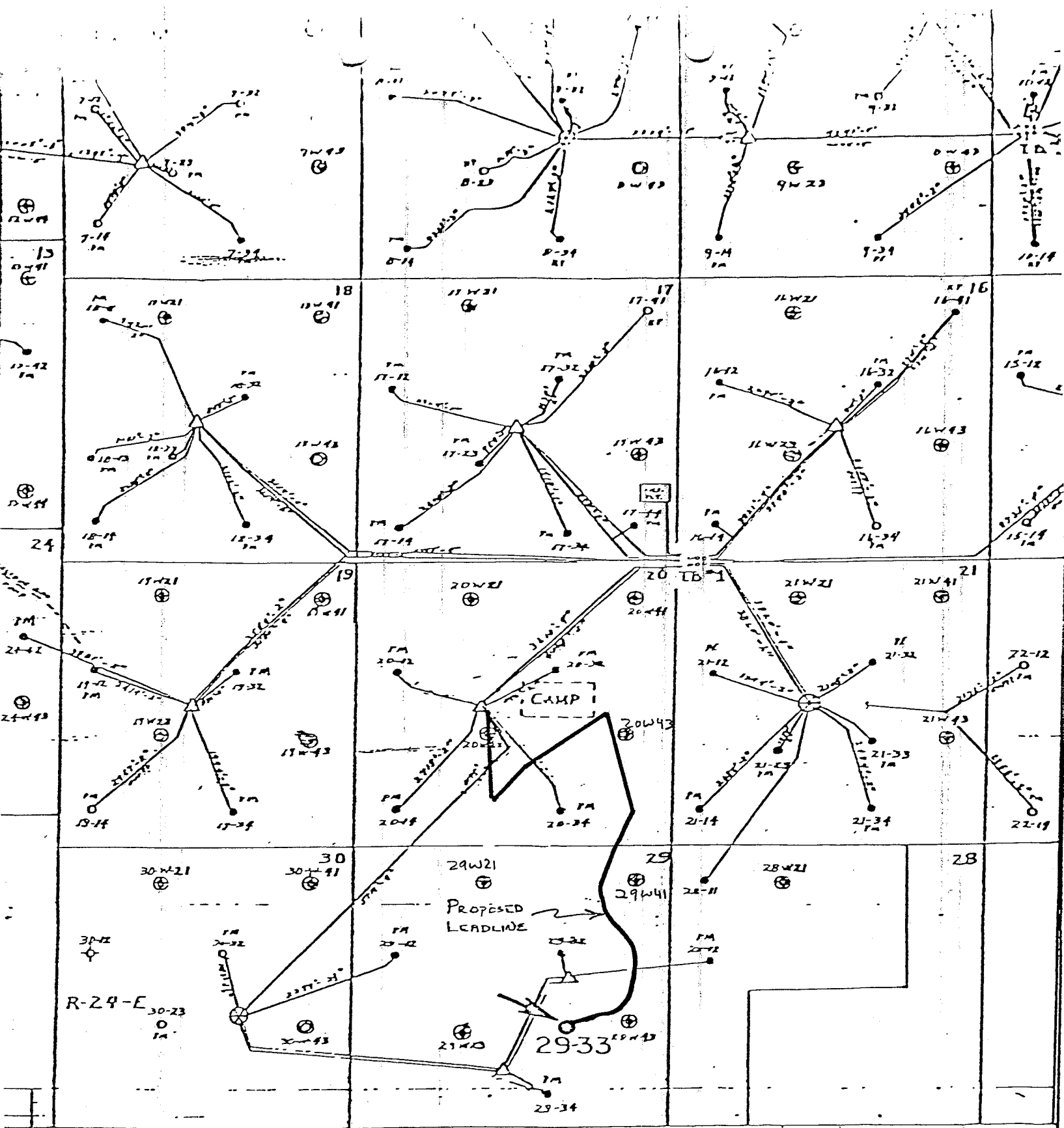
5-BLM-Farmington
1-File
Utah O&G CC SLC Utah
1-J.L. Whitmire (r) T.C. Doughty
1-G. W. Berk
1-T.M. Isaacs

*See Instructions on Reverse Side



NO.	REVISION	BY	DATE	CHKD	APP'D

FOR BIDS	PHILLIPS PETROLEUM COMPANY BARTLESVILLE, OKLAHOMA	JA NO.	FILE CODE
FOR APPR			
FOR CONST	RATHERFORD UNIT WELL 29-33 TOPO MAP	AFE NO.	SCALE 2" = 1mi
DRAWN CJW	NWSE SEC. 29 T41S-R24E	DWG NO.	
CHECKED	SAN JUAN CO., UTAH		
APP'D		SH NO.	



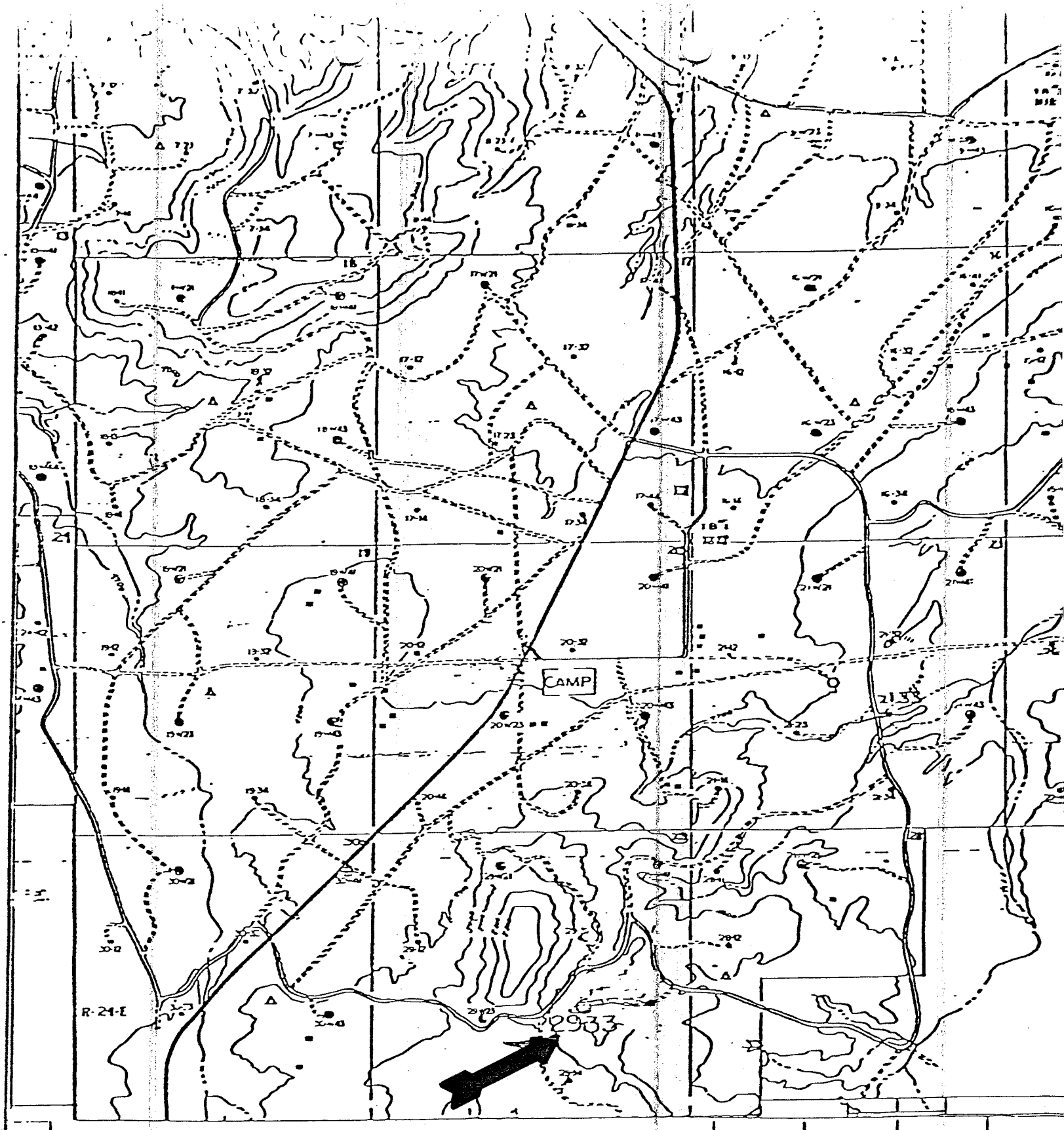
NO.	REVISION	BY	DATE	CHKD	APP'D
1	ROUTING OF LEADLINE CHANGED	BJM	11/7/83		

FOR BIDS
FOR APPR
FOR CONST
DRAWN
CHECKED
APP'D

PHILLIPS PETROLEUM COMPANY
BARTLESVILLE, OKLAHOMA

RATHERFORD UNIT WELL 29-33
PROPOSED LEADLINE
NWSE SEC. 29 T41S-R24E
SAN JUAN CO., UTAH

JA NO.
FILE CODE
AFE NO.
SCALE 2¼" = 1 mi
DWG NO.
SH NO. A-1A



NO.	REVISION	BY	DATE	CHK'D	APP'D

FOR BIDS	PHILLIPS PETROLEUM COMPANY	JA NO.	FILE COD
FOR APPR	BARTLESVILLE, OKLAHOMA	AFE NO.	SCALE 2¼" = 1 M
FOR CONST	RATHERFORD UNIT WELL 29-33 ROAD PLAT NWSE SEC. 29 T41S-R24E SAN JUAN CO., UTAH	DWG NO.	
DRAWN CJW		SH NO.	
CHECKED			
APP'D			

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9–331–C for such proposals.)

1. oil well ☐ gas well ☐ other Lease Road
2. NAME OF OPERATOR
Phillips Petroleum Company
3. ADDRESS OF OPERATOR
P. O. Box 2920 Casper, WY 82602
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE:
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE 14-20-603-353
14-20-603-407
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo
7. UNIT AGREEMENT NAME
SW-I-4192
8. FARM OR LEASE NAME
Ratherford Unit
9. WELL NO.
10. FIELD OR WILDCAT NAME
Greater Aneth
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 20 and 29, T41S-R24E
12. COUNTY OR PARISH San Juan
13. STATE Utah
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☐
(other) road construction ✓		

(NOTE: Report results of multiple completion or zone change on Form 9–330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Approval is requested, contingent on securing Archaeological clearance and residents approval, to construct an access road as shown on the attached Plat A-1A. Approximately 660' of new lease road will be built. The road construction will be of native soil, approximately 20' wide.

RECEIVED
NOV 15 1983
DIVISION OF
OIL GAS & MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

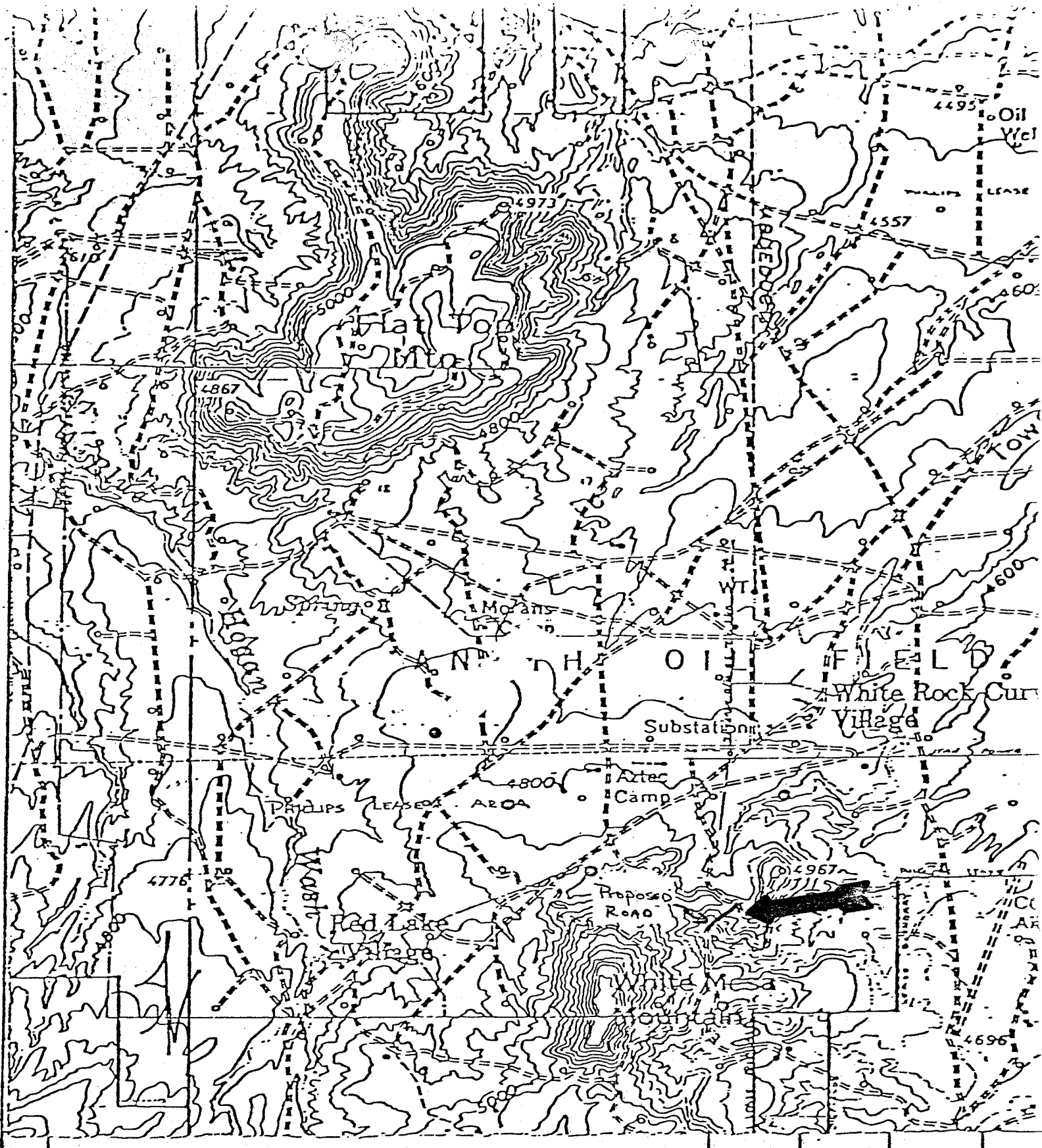
SIGNED A. E. Stuart TITLE Area Manager DATE November 10, 1983

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

5- BLM Farmington
2- Utah O&G CC SLC, Utah
1- J. L. Whitmire (r) T.C. Doughty
1- G. W. Berk
1- T. M. Isaacs
1- File

*See Instructions on Reverse Side



NO.	REVISION	BY	DATE	CHKD	APP

FOR BIDS

FOR APPR

FOR CONST

DRAWN

CHECKED

PHILLIPS PETROLEUM COMPANY

RATHERFORD UNIT
PROPOSED ROAD
T41S-R24E
SAN JUAN CO., UTAH

JA NO.

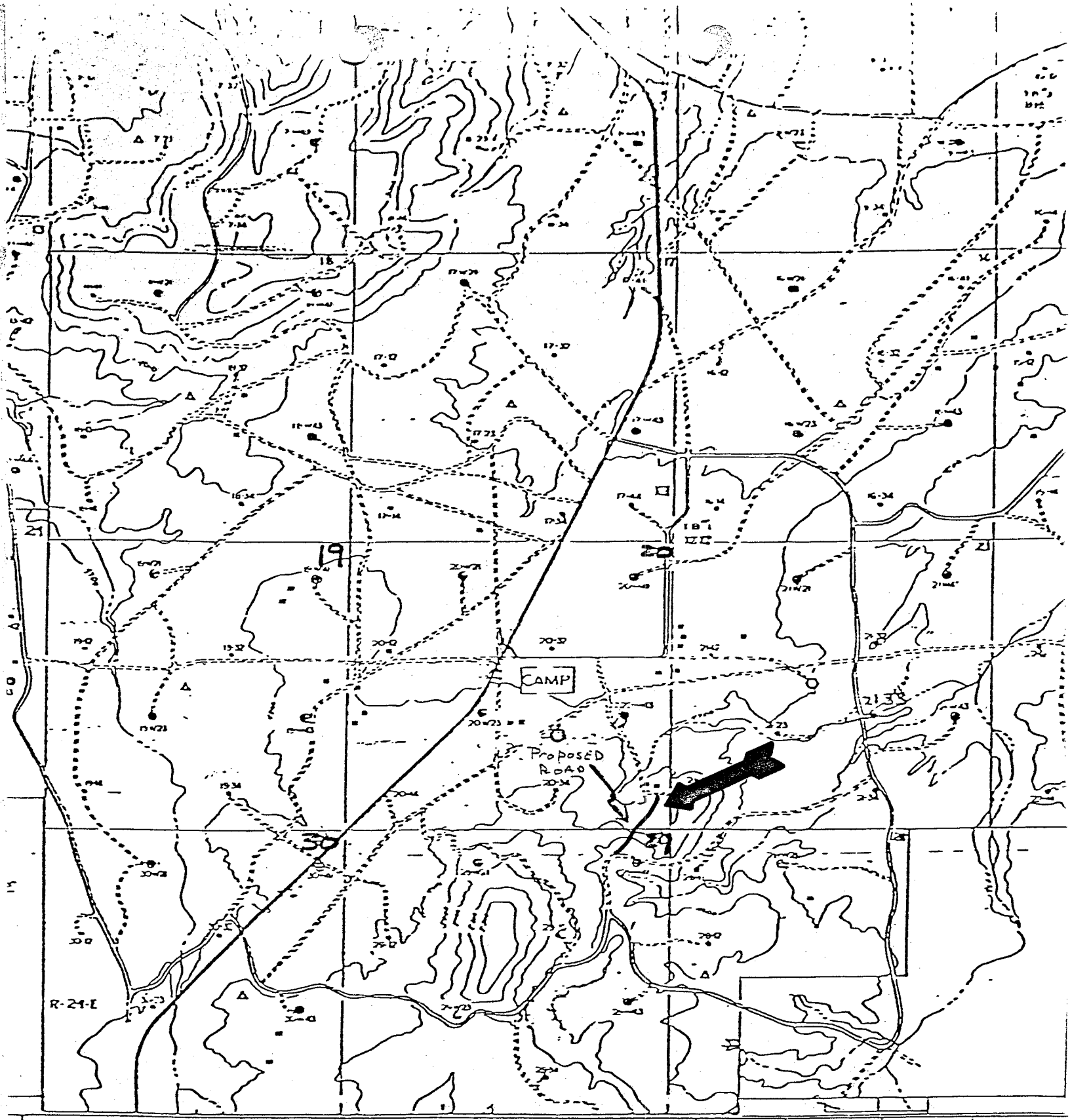
FILE CO

AFE NO.

SCALE
1" = 1M

DWG NO.

SH NO



REVISION	BY	DATE	CHKD	APP'D

BIDS	PHILLIPS PETROLEUM COMPANY	JA NO.	FILE CODE
APPR	BARTLESVILLE, OKLAHOMA	AFE NO.	SCALE 2¼" = 1 mi
CONST	RATHERFORD UNIT PROPOSED ROAD T41S-R24E		
DWN CJW		DWG. NO.	
CKED			
D	SAN JUAN CO., UTAH	SH NO.	A-1A

9–331
1973

Form Approved.
Budget Bureau No. 42–R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9–331–C for such proposals.)

1. oil well [X] gas well [ ] other

2. NAME OF OPERATOR
Phillips Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 2920, Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE:
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
SW-I-4192

8. FARM OR LEASE NAME
Ratherford Unit

9. WELL NO.

10. FIELD OR WILDCAT NAME
Greater Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	[ ]		[ ]
FRACTURE TREAT	[ ]		[ ]
SHOOT OR ACIDIZE	[ ]		[ ]
REPAIR WELL	[ ]		[ ]
PULL OR ALTER CASING	[ ]		[ ]
MULTIPLE COMPLETE	[ ]		[ ]
CHANGE ZONES	[ ]		[ ]
ABANDON*	[ ]		[ ]
(other) Change of Operator			

(NOTE: Report results of multiple completion or zone change on Form 9–330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Effective December 1, 1983, Phillips Oil Company assumed operations from Phillips Petroleum Company. The following wells had Applications for Permits to Drill submitted under Phillips Petroleum Company:

Ratherford Unit #19-42, 20-13, 20-44, 20-22, 20-24, 20-33, 21-13, 29-42, 29-32, & 29-33. + 29-31

RECEIVED
JAN 19 1984
DIVISION OF
OIL, GAS & MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED A. E. Stuart TITLE Area Manager DATE 1/13/84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

9-331
1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well [X] gas well [ ] other

2. NAME OF OPERATOR
Phillips Oil Company

3. ADDRESS OF OPERATOR
8055 E. Tufts Ave. Pkwy., Denver CO 80237

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1860 FSL & 1820 FEL (NW/SE)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
14-20-603-407

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
SW-I-4192

8. FARM OR LEASE NAME
Ratherford Unit

9. WELL NO.
#29-33

10. FIELD OR WILDCAT NAME
Greater Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 29, T41S, R24E

12. COUNTY OR PARISH 13. STATE
San Juan Utah

14. API NO.
43-037-30932

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4902 GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	[ ]		[ ]
FRACTURE TREAT	[ ]		[ ]
SHOOT OR ACIDIZE	[ ]		[ ]
REPAIR WELL	[ ]		[ ]
PULL OR ALTER CASING	[ ]		[ ]
MULTIPLE COMPLETE	[ ]		[ ]
CHANGE ZONES	[ ]		[ ]
ABANDON*	[ ]		[ ]
(other)			

RECEIVED
FEB 1 1984
DIVISION OF
OIL, GAS & MINING

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spudded well Dec. 26, 1984, with Four Corners Rig #8. Drilled 12-1/4" hole to 1600'. Ran 1630' 9-5/8" 36# K-55, set at 1600. Cemented with 720 ft^3 (300 sx) Class B w/20%. Diacel D tailed with 360 ft^3 (300 sx) Class B. Cement circulated, job complete 12-28-83. Drilled 8-3/4" hole to 5800'. Ran 5800' 7" 23 & 26# K-55 casing. Set at 5800'. Cemented with 960 ft^3 (400 sx) Class B w/20% Diacel D tailed with 360 ft^3 (300 sx) Class B w/18% salt. Pressure test casing to 1500 psi, job complete 1-8-84. TOC @ 2992'.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Harold W Beck TITLE RMR Drilling Mgr DATE January 1984

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form 8-329 Rev. Feb 76
OMB 42-R0356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 1 4603-407
Communitization Agreement No. NA
Field Name Greater Aneth
Unit Name Ratherford Unit (SW-I-4192)
Participating Area Paradox
County San Juan State Utah
Operator Phillips Petroleum Company

☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of December, 19 83

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & ¼ of ¼	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
29-33	Sec. 29 NW SE	41S	24E	DRG			INITIAL REPORT		

Present Operation as of January 1, 1984 - Drlg at 4238'.

MI & RU dry hole digger. Drld 18" hole to 118'. Ran 3 jts 13-3/8" K-55 48# 8 round ST&C csg. Cmtd w/150 sx Class B cmt, 31 bbls slurry displaced w/17.5 bbls wtr leaving 1 bbl cmt in csg. Had cmt returns, 2 gallons, but slowly fell back. MI & RU Four Corners, Rig #8, 12/25/83. Spudded 12-1/4" surface hole at 6:00 pm, 12/26/83 and drld to 1600'. Ran 1629.77 of 9-5/8" 36# K-55 8Rd csg set at 1600'. Cmtd w/300 sx Class B cmt w/20% Diacel-D w/1/4#/sx Celloflakes, 2% CaCl2, followed w/300 sx Class B cmt w/1/4#/sx Celloflakes, 2% CaCl2. Displd w/122.8 BW w/good returns. 1500 psi test pressure on plug, released press, plug held. RD Hydrill, cut csg. Weld on 9-5/8" Bradenhead. Test well to 3000 psi. Top off cmt in annulus w/25 sx Class B cmt w/3% CaCl2. NU BOP's. Test to 300 & 3000 psi. Tag cmt at 1559'. Test 9-5/8" csg to 1500 psi. Drld FC, 40' cmt, shoe & drld 8-3/4" hole to 4238'. Mud 9.4, Vis 32, WL 13.6.

*If none, so state.

Disposition of production (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Produced			
*Sold			XXXXXXXXXXXXXXXX
*Spilled or Lost		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXX
*Used on Lease			XXXXXXXXXXXXXXXX
*Injected			
*Surface Pits	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	
*Other (Identify)			
*On hand, End of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*API Gravity/BTU Content			XXXXXXXXXXXXXXXX

Authorized Signature: A. E. Stuart Address: P.O. Box 2920, Casper, WY 82602

Title: Area Manager

Form 9-330.
(Rev. 5-63)

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-603-407

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo

7. UNIT AGREEMENT NAME: SW-I-4192

8. FARM OR LEASE NAME: Ratherford Unit

9. WELL NO.: #29-33

10. FIELD AND POOL, OR WILDCAT: Greater Aneth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 29-T41S-R24E

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [XX] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Phillips Oil Company

3. ADDRESS OF OPERATOR: P.O. Box 2920, Casper, WY 82602

RECEIVED
FEB 14 1984
DIVISION OF OIL, GAS & MINING

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 1860' FSL & 1820' FEL, NW SE
At top prod. interval reported below
At total depth

14. PERMIT NO.

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
12/26/83	1/7/84	1/25/84	GR 4915', RKB 4927'	--

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5800'	5744'	--	→	0 - 5800'	--

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 5606' - 5696' Desert Creek Zone 1 & Ismay

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DLL-MSFL-GR-CAL, FDC-CNL

27. WAS WELL CORED: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	118'	18"	180 ft^3 Class B	--
9-5/8"	36#	1600'	12-1/4"	1080 ft^3 Class B	--
7"	23 & 26#	5800'	8-3/4"	1320 ft^3 Class B	--

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
--	--	--		

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5634'	5634'

31. PERFORATION RECORD (Interval, size and number)
SEE ATTACHMENT

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	SEE ATTACHMENT

This is a Sundry Report not a w/c Report

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
1/25/84	Presently running pump & rods, will resubmit when test obtained.	

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS
Acid, Shot, Fracture, Cement Squeeze and Perforation Record

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED A. E. Stuart TITLE Area Manager DATE 2/8/84

(See Instructions and Spaces for Additional Data on Reverse Side)

API #43-037-30932

4 - BLM, Farmington
2 - Utah O&G CC, SLC, Utah
1 - BIA, Shiprock, NM
1 - Navajo Nation
1 - B. Conner, B'Ville
1 - Whitmire, Denver
1 - Poling, Denver
1 - Coffelt, Denver
1 - W.I. Owners
1 - File

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
NO CORES OR DST'S RUN.			

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
LOG TOPS		
Shinarump	2440'	
DeChelly	2740'	
Hermosa	4750'	
Paradox	5520'	

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

GPO 870-401

Attachment to Form 9-330
Ratherford Unit #29-33

ACID, SHOT, FRACTURE, CEMENT SQUEEZE & PERFORATION RECORD

5708½-5726½' - 2 SPF, 4" hollow steel carrier gun
Shot did not fire at 5718½', 35 shots.
5706-5708½' - 2 SPF, 4" hollow steel carrier gun
Shot did not fire at 5708', 4 shots.

5706-5726½' - Spotted 250 gal 28% HCL w/2 gal/1000 NAI-166, 5 gal/1000 NNE-257N, 50#/1000 NIS-546 & 5 gal/1000 NFS-282N. Pumped 2450 gal acid. Dropped 82, 1.3 sp grav., ball sealers throughout. Displd w/41 bbls lse wtr.

Set BP at 5701' to perforate upper interval.

5640 - 5644' - 2 SPF, 4" hollow steel carrier gun
5674 - 5696' - 2 SPF, 4" hollow steel carrier gun
54 holes total

5640 - 5696' - Acidized w/4000 gal 28% FE acid w/2 gal/1000 NAI-50, 1 gal/1000 NC-2 & 3 gal/1000 Lo-Surf 259. Cleared tbg of all acid & pumped 30 bbls down annulus.

Pulled BP at 5701'. WIH, set pkr at 5634'.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
(FORM 9-329)
(2/76)
OMB 42-RO 356

MONTHLY REPORT OF OPERATIONS

Lease No. 14-20-603-407
Communitization Agreement No. NA
Field Name Greater Aneth
Unit Name Ratherford Unit (SW-I-4192)
Participating Area Paradox
County San Juan State Utah
Operator Phillips Oil Company
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of January, 19 84

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & ¼ of ¼	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
29-33	Sec. 29 NW SE	41S	24E	DRG					Present Operation as of February 1, 1984, preparing to perforate. SEE ATTACHMENT FOR DETAILS

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Produced			
*Sold			XXXXXXXXXXXXXXXX
*Spilled or Lost		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXX
*Used on Lease			XXXXXXXXXXXXXXXX
*Injected			
*Surface Pits	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	
*Other (Identify)			
*On hand, End of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*API Gravity/BTU Content			XXXXXXXXXXXXXXXX

Authorized Signature: A. E. Stuart Address: P.O. Box 2920, Casper, WY 82602
Title: Area Manager

DAILY REPORT DETAILED

LEASE RATHERFORD UNIT WELL NO. 29-33 SHEET NO. 2

1983 DATE	NATURE OF WORK PERFORMED	TOTAL DEPTH
December 28	12/28/83 AFE: U863	
	TD 1600'. WOC. 12/26/83 - MI & RU FOUR CORNERS, RIG #8, 12/25/83. 12/27/83 - SPUDDED 12-1/4" SURFACE HOLE AT 6:00 PM, 12/26/83 AND DRLD TO 1018', 900'. SURVEYS - 1-1/4 DEG AT 191', 1 DEG AT 326', 3/4 DEG AT 418' & 512', 1-3/4 DEG AT 761', 1-1/2 DEG AT 885'. 12/28/83 - DRLD 12-1/4" HOLE TO 1600', 582'. RU & RUN 1629.77' OF 9-5/8" 36# K-55 8rd CSG SET AT 1600'. CIRC FLOSAL PILL, VIS 47, MUT 9 PPG. CMTD W/300 SX CLASS B CMT W/20% DIACEL-D W/1/4#/SX CELLOFLAKES, 2% CaCL2, 12.4 PPG, FOLLOWED W/300 SX CLASS B CMT W/1/4#/SX CELLOFLAKES, 2% CaCL2, 15.6 PPG. DISPLD W/122.8 BW W/GOOD RETURNS. 1500 PSI TEST PRESSURE ON PLUG, RELEASED PRESSURE, PLUG HELD. NOW WOC. SURVEYS - 1-1/4 DEG AT 978', 3/4 DEG AT 1105' & 1326', 1 DEG AT 1576'.	
29	12/29/83 AFE: U863	
	D 2353. WOC. RD HYDRILL, CUT CSG. WELD ON 9-5/8" BRADEN-HEAD. TEST WELL TO 3000 PSI. TOP OFF CMT IN ANNULUS W/25 SX CLASS B CMT W/3% CaCL2. NU BOP'S. TEST TO 300 & 3000 PSI. WIH. TAG CMT AT 1559'. TEST 9-5/8" CSG TO 1500 PSI. DRLD FC, 40' CMT, SHOE & 10' FORMATION. PERFORMED LEAK-OFF TEST. (LEAKED OFF AT 13.7 PPG MUD EQUIVALENT). DRLD TO 2353', 753'. SURVEY - 3/4 DEG AT 2098'.	
30	12/30/83 AFE: U863	
	D 3240. DRLD TO 3240', 887'. DRLD TO 3240', 887'. SURVEY - 3/4 DEG AT 2603'. MUD 9.5, VIS 35, WL 12.2.	
Dec. 31- Jan. 3, '84	01/03/84 AFE: U863	
	D 4976. 12/31/83 - DRLD TO 3800', 560'. SURVEY - 1 DEG AT 3481'. MUD 9.5, VIS 33, WL 14. 1/1/84 - DRLD TO 4238', 438'. SURVEY - 3/4 DEG AT 3982'. MUD 9.4, VIS 32, WL 13.6. 1/2/84 - DRLD TO 4632', 394'. SURVEY - 3/4 DEG AT 4480'. MUD 9.5, VIS 37, WL 8.2. 1/3/84 - DRLD TO 4976', 344'. MUD 9.5, VIS 33, WL 12.0.	
4	01/04/84 AFE: U863	
	D 5205. DRLD TO 5205', 229'. SURVEY - 1/2 DEG AT 5011'. MUD 9.6, VIS VIS 33, WL 10.4.	
5	01/05/84 AFE: U863	
	D 5428. DRLD TO 5428', 223'. MUD 10.4, VIS 39, WL 8.	
6	01/06/84 AFE: U863	
	D 5613. DRLD TO 5613', 185'. SURVEY - 3/4 DEG AT 5513'. MUD 10.6, VIS 46, WL 8.0.	

DAILY REPORT DETAILED

LEASE RATHERFORD UNIT WELL NO. 29-33 SHEET NO. 3

1984 DATE	NATURE OF WORK PERFORMED	TOTAL DEPTH
January 7-9	Ø1/Ø9/84 AFE: U863 TD 58ØØ, PBTD 5751. RDRT. 1/7/84 - DRLD TO TD 5785', 1/6/84. MADE SHORT TRIP, OK. CIRC & COND HOLE FOR LOGGING. SLM OOH. SURVEY - 1/2 DEG AT 5764'. RU LOGGERS. MUD 1Ø.6, VIS 47. 1/8/84 - FIN RU GEARHART. RUN DLL-MSFL-GR-CAL FROM TD TO SURF SHOE, FDC-CNL-GR-CAL FROM TD TO 43ØØ'. DROPPED ALUMINUM PROTECTOR OFF SONDE IN HOLE. WIH W/BIT & JUNK SUB, WORKED ON JUNK & DRLD ADDITIONAL 15' TO FINAL TD 58ØØ', 1/7/84. CIRC & COND HOLE. COOH. LDDP. CHG RAMS & RU CSG CREW. RUN 14Ø JTS 7" 23# & 26# K-55 CSG SET AT 58ØØ', FC AT 5751' PBTD. RU TO RECIPROCATE. MUD 1Ø.6, VIS 47. 1/9/84 - CIRC & RECIPROCATE 7" CSG. CMTD AS FOLLOWS - 2Ø BBL PREFLUSH, FOLLOWED W/4ØØ SX CLASS B W/2Ø% DIACEL D, 1Ø% SALT, 1Ø#/SX KOLITE & 1/4#/SX CELLOFLAKE, WT 12.2 PPG, TAILED IN W/3ØØ SX CLASS B W/.75% D-59, 18% SALT & 1/4#/SX CELLO-FLAKE, WT 15.8 PPG. DISPLD W/225 BW. FD AT 9:3Ø AM, 1/8/84. BUMPED PLUG W/15ØØ PSI, OK. FLOATS HELD. ND BOP. SET SLIPS. CUT OFF CSG. RELEASED RIG AT 11:3Ø AM, 1/8/84. NOW RDRT..	
10	Ø1/1Ø/84 AFE: U863 PBTD 5751. FIN RDRT. NOW WO COMPLETION UNIT..	
11	Ø1/11/84 AFE: U863 PBTD 5751. WO COMPLETION UNIT..	
12	Ø1/12/84 AFE: U863 PBTD 5751. WO COMPLETION UNIT..	
13	Ø1/13/84 AFE: U863 PBTD 5751. WO COMPLETION UNIT.	
14-16	Ø1/16/84 AFE: U863 PBTD 5751. 1/14/84 THRU 1/16/84 - WO COMPLETION UNIT..	
17	Ø1/17/84 AFE: U863 PBTD 5751. WO COMPLETION UNIT..	
18	Ø1/18/84 AFE: U863 PBTD 5751. WO COMPLETION UNIT..	
19	Ø1/19/84 AFE: U863 PBTD 5751. WO COMPLETION UNIT..	
20	Ø1/2Ø/84 AFE: U863 PBTD 5751. WO COMPLETION UIT.	

DAILY REPORT DETAILED

LEASE RATHERFORD UNIT WELL NO. 29-33 SHEET NO. 4

1984 DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
January 21-23		Ø1/23/84 AFE: U863 PBTD 5744. 1/22/84 - MI & RU COMPLETION UNIT 1/21/84. HELD SAFETY MEETING. NU 6" 3ØØØ PSI BOP'S. PRESS TSTD BOP'S TO FPCO STANDARDS. PU 6-1/8" BIT & 7" SCRAPER. WIH, TAG CMT AT 5734'. RU POWER SWIVEL & CIRC EQUIPMENT. WASHED CMT TO NEW PBTD 5744'. CMT HAD NOT SET UP. CIRC BTMS UP AND LEFT BIT AT 5713'. SDON. 1/23/84 - ROLLED HOLE W/22Ø BBLS LSE WTR. PRESS TEST CSG TO 15ØØ PSI. COOH W/BIT & SCRAPER. RU GEOSOURCE. RUN CBL, VDL, GR LOG 5745-279Ø' (TOP OF CMT AT 2922'). TWO TOOL FAILURES ON LOGGING. RU LUBRICATOR, TESTED TO 15ØØ PSI. WIH W/4" HOLLOW STEEL CARRIER GUN, PERFORATED 57Ø8-1/2 TO 5726-1/2' 2 SPF, 35 SHOTS (SHOT DID NOT FIRE AT 5718-1/2', GUN LOADED WRONG). NO PRESSURE BUILD-UP. LOADED ANOTHER GUN. PERFORATED 57Ø6 - 57Ø8-1/2', 2 SPF, 4 SHOTS (NO HOLE AT 57Ø8' BECAUSE OF MISFIRE). TOTAL 39 SHOTS. HAD 4 PSI AFTER PULLING GUN FROM HOLE. SHUT WELL IN OVERNIGHT, WELL FLOWING 3 BBLS/HR. THIS AM - TP 95Ø PSI..
24		Ø1/24/84 AFE: U863 PBTD 5744. SWABBING WELL. PU 7" BAKER R-3 PKR, WIH & SET AT 5592'. FLWD WELL 2 HRS, REC 1-1/2 BW, MADE 4 SWAB RUNS, REC 2 BO & 24.2 BW, FL AT 49ØØ'. WAIT 3Ø MIN AND SWABBED .7 BO & .7 BW, 3ØØ' ENTRY. SHUT DOWN 1 HR, REC 1-1/2 BO & 1-1/2 BW, 6ØØ' ENTRY. SDON..
25		Ø1/25/84 AFE: U863 PBTD 5744. THIS AM - WELLHEAD PRESS 35Ø PSI. OPENED WELL TO FRAC TANK, WELL FLWD 13-1/2 BO IN 3Ø MIN, THEN DIED. SWBD WELL, REC 3 BO. SHUT DOWN 2 HRS. MADE 1 SWAB RUN FROM 49ØØ', REC 1.6 BO. SHUT DOWN 2 HRS. MADE 1 SWAB RUN FROM 49ØØ', REC 1.3 BO. ND BOP'S. NU WELLHEAD, WIH W/BHP BOMB. HANG OFF BOMB AT 558Ø' SHUT WELL IN OVERNIGHT. TOTAL RECOVERY - 19.4 BO..
26		Ø1/26/84 AFE: U863 PBTD 5744. SWAB TSTG WELL. COOH W/BHP BOMB, AFTER 16 HRS, PRESS 1452 PSI AND STILL INCREASING. RU NOWSCO. HELD SAFETY MEETING. PRESS TEST LINES TO 4ØØØ PSI. ATTEMPT TO PUMP INTO WELL AT 33ØØ PSI. UNSEAT PKR AND ROLL HOLE W/LSE WTR. RAN PKR TO 5724'. SPOTTED 25Ø GAL 28% HCL W/2 GAL/1ØØØ NAI-166, 5 GAL/1ØØØ NNE-257N, 5Ø#/1ØØØ NIS-546 AND 5 GAL/1ØØØ NFS-282N. RESET PKR AT 5558'. BROKE DOWN WELL AT 1-1/2 BPM AT 31ØØ PSI. PUMPED 245Ø GAL ACID, AVG 2 BPM AT 3ØØØ PSI. DROPPED 82, 1.3 SP GRAV, BALL SEALERS THROUGH-OUT-JOB. BALLED OFF TWICE. DISPLD W/41 BBLS LSE WTR. ISIP 25ØØ PSI, 5 MIN 63Ø PSI, 1Ø MIN 4ØØ PSI, 15 MIN 1ØØ PSI. RD NOWSCO. TOTAL LOAD TO REC 98 BBLS. SWBD WELL, FLWD 4 HRS AND DIED, REC 48 BO & 6Ø BW. 38 BBLS LOAD TO REC..
		Ø1/27/84 AFE: U863 PBTD 5744. SWAB & FLOW TESTING WELL. WELL FLOWS FOR 2Ø TO 3Ø MIN AFTER EACH SWAB RUN AND DIES. FL AT 25ØØ'. TOTAL RECOVERY - 1Ø4 BO & 26 BW. 12 BLW TO REC. LEFT WELL OPEN TO TANK.

FORM 911

DAILY REPORT DETAILED

LEASE RATHERFORD UNIT WELL NO. 29-33 SHEET NO. 5

1984 DATE	NATURE OF WORK	TOTAL DEPTH PERFORMED
January 28-30	Ø1/3Ø/84 AFE: U863 PBTD 5744. PREP TO PULL BHP BOMB. 1/28/84 - SWABBED & FLWD 4-1/2 HRS. REC 6Ø BO & 14 BW. RU TEFTELER. RUN PRESS BOMB. SHUT-IN WELL AT 12:3Ø PM, 1/27/84. 1/29/84 & 1/3Ø/84 - SI FOR BHP TEST..	
31	Ø1/31/84 AFE: U863 PBTD 5744. PREPARING TO PERF. COOH W/WL PRESS BOMB. HAD 39 HR INTERVAL READINGS, STARTING AT 585 PSI AND ENDING AT 952 PSI. COOH W/TBG. WIH W/HALLIB COLLAR LOCATOR AND BP. SET BP AT 57Ø1', 5' ABOVE PERFS. TESTED TO 15ØØ PSI FOR 15 MIN, OK. SDON..	

9-331
1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well [X] gas well [ ] other

2. NAME OF OPERATOR
Phillips Petroleum Company

3. ADDRESS OF OPERATOR
8055 E. Tufts Ave. Pkwy./Denver, CO. 80237

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1860 FSL & 1820 FEL (NW SE)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
14-20-603-407

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
SW-I-4192

8. FARM OR LEASE NAME
Ratherford Unit

9. WELL NO.
29-33

10. FIELD OR WILDCAT NAME
Greater Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 29-T41S-R24E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30932

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4927 RKB

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	[ ]		[ ]
FRACTURE TREAT	[ ]		[ ]
SHOOT OR ACIDIZE	[ ]		[ ]
REPAIR WELL	[ ]		[ ]
PULL OR ALTER CASING	[ ]		[ ]
MULTIPLE COMPLETE	[ ]		[ ]
CHANGE ZONES	[ ]		[ ]
ABANDON*	[ ]		[ ]
(other)			

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled 18" conductor hole to 118 ft. Ran 118 ft., 13-3/8" 54.5# K-55 conductor casing. Set casing at 118 ft. cemented with 180 ft^3 (150 sx) class 'B' cement circulated to surface. Finished job and moved out rathole driller 12-12-83. Moved in drilling rig to spud well. See Sundry Notice dated January, 1984. Reached TD of 5800' 1-7-84.
Plug back total depth is 5744 ft.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Harold W Beck TITLE Drilling Manager DATE 2-2-84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

6 - BLM Farmington, NM.
2 - Utah Oil & Gas CC Salt Lake City
1 - File - RC
1 - Casper
1 - T. M. Issacs

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form 8-329 Rev. Feb 76
OMB 42-R0356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 14-[illegible]-603-407

Communitization Agreement No. NA
Field Name Greater Aneth
Unit Name Ratherford Unit (SW-I-4192)
Participating Area Paradox
County San Juan State Utah
Operator Phillips Oil Company

☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of February, 19 84

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & ¼ of ¼	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
29-33	Sec. 29 NW SE	41S	24E	DRG		PBTD 5744. Present operation as of March 1, 1984, pmpg to production, installing new pump. SEE ATTACHED FOR DETAILS			43-037-30932

RECEIVED
MAR 12 1984
DIVISION OF
OIL, GAS & MINING

RECEIVED
MAR 12 1984
DIV. OF OIL, GAS & MINING

*If none, so state.

Disposition of production (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month		XXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Produced			
*Sold			XXXXXXXXXXXXXXXX
*Spilled or Lost		XXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXX
*Used on Lease			XXXXXXXXXXXXXXXX
*Injected			
*Surface Pits	XXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXX	
*Other (Identify)			
*On hand, End of Month		XXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*API Gravity/BTU Content			XXXXXXXXXXXXXXXX

Authorized Signature: A. E. Stuart Address: P.O. Box 2920, Casper, WY 82602

Title: Area Manager

DAILY REPORT DETAILED

LEASE RATHERFORD UNIT WELL NO. 29-33 SHEET NO. 5

1984 DATE	NATURE OF WORK PERFORMED	TOTAL DEPTH
January 28-30	Ø1/3Ø/84 AFE: U863 PBTD 5744. PREP TO PULL BHP BOMB. 1/28/84 - SWABBED & FLWD 4-1/2 HRS. REC 6Ø BO & 14 BW. RU TEFTELER. RUN PRESS BOMB. SHUT-IN WELL AT 12:3Ø PM, 1/27/84. 1/29/84 & 1/3Ø/84 - SI FOR BHP TEST..	
31	Ø1/31/84 AFE: U863 PBTD 5744. PREPARING TO PERF. COOH W/WL PRESS BOMB. HAD 39 HR INTERVAL READINGS, STARTING AT 585 PSI AND ENDING AT 952 PSI. COOH W/TBG. WIH W/HALLIB COLLAR LOCATOR AND BP. SET BP AT 57Ø1', 5' ABOVE PERFS. TESTED TO 15ØØ PSI FOR 15 MIN, OK. SDON..	
February 1	Ø2/Ø1/84 AFE: U863 PBTD 5744. PREP TO ACIDIZE. RU BASIN PERFORATORS. TESTED LUBRICATOR TO 1ØØØ PSI. PERFORATED FROM 564Ø-5644' & 5674-5696', 2 SPF, ALL SHOTS FIRED, TOTAL 54 HOLES. COOH. RD BASIN PERFORATORS. RU & WIH W/HOWCO PPI PKR TOOL (PIN PT INJECTION). SPACED OUT TO STRADDLE FRAC, 1' AT A TIME. SDON..	
2	Ø2/Ø2/84 AFE: U863 PBTD 5744. PULLING FLUID PLUG. RU HOWCO. HELD SAFETY MEETING. TESTED SURF LINES TO 4ØØØ PSI. SET PKR BETWEEN THE TWO SETS OF PERFS. TESTED TBG TO 3ØØØ PSI. STARTED INJECTING AT 2:ØØ PM, 15Ø GAL FOR EACH FT., STARTING W/LOWER PERFS AT 5695-96', 26 SETTINGS. TOTAL ACID INJECTED - 4ØØØ GAL 28% FE ACID W/2 GAL/1ØØØ NAI-5Ø, 1 GAL/1ØØØ HC-2, & 3 GAL/1ØØØ LO-SURF 259. THE FIRST 1Ø' INJECTED AT 25ØØ TO 29ØØ PSI AT 1 BPM. HAD 5Ø PSI ON ANNULUS. THE REMAINING INTERVALS INJECTED AT 25ØØ TO 21ØØ PSI AT 1 BPM, NO PRESS ON ANNULUS. AFTER COMPLETING INJ, NO PRESS ON ANNULUS OR TBG. CLEARED TBG OF ALL ACID AND PMPD 3Ø BBLS DOWN ANNULUS. MADE TRIP W/SAND LINE AND PULLED RFC VALVE IN TOP OF PKR. SDON..	
3	Ø2/Ø3/84 AFE: U863 PBTD 5744. SWABBING WELL. WELL HAD 5 PSI ON ANNULUS & 2Ø PSI ON TBG. COOH W/PPI PKR. WIH W/BAKER R-3 PKR, SET PKR AT 561Ø'. REMOVED BOP & INSTLD WELLHEAD. MADE 12 SWAB RUNS, REC 55 BO & 55 BW. WELL STARTED FLOWING FOR SHORT PERIOD AFTER #6 SWAB RUN. SDON..	
4-6	Ø2/Ø6/84 AFE: U863 PBTD 5744. 2/4/84 - TP 3ØØ PSI, CP Ø PSI. BLED GAS FOR 18 MIN, PROD 18 BO BEFORE IT DIED. MADE 19 SWAB RUNS, WELL WOULD FLOW FOR A SHORT PERIOD BUT DIE AFTER EACH RUN. TOP OF FLUID 25ØØ'. INITIALLY MADE 7Ø% WTR, 3Ø% OIL. AT END OF SWBG, MADE 9Ø% OIL, 1Ø% WTR. MADE TOTAL OF 1Ø9 BO & 55 BW. 2/5/84 - TP 25Ø PSI, CP Ø PSI. ND TREE. NU BOP'S. PUMPED 85 BBLS DOWN ANNULUS. LOWERED PKR TO BP AT 57Ø1'. COOH W/BP & PKR. WIH W/PKR SET AT 5634'. ND BOP'S. NU TREE. BEGAN SWBG WELL, MADE 5 RUNS. REC 55 BW & 2% OIL. 2/6/84 - TP 23Ø PSI, ANNULUS Ø PSI. MADE 18 SWAB RUNS, REC 87 BO & 85 BW. FL BETWEEN 33ØØ-25ØØ'. FIRST RUN 1ØØ% OIL, 2ND RUN ALMOST NO OIL (Ø.Ø8%). 18TH RUN REC 9Ø% OIL..	

FORM 9

DAILY REPORT DETAILED

LEASE RATHERFORD UNIT WELL NO. 29-33 SHEET NO. 6

1984 DATE	NATURE OF WORK	TOTAL DEPTH PERFORMED
February 7	02/07/84 AFE: U863 PBTD 5744. PREP TO RUN PUMP & RODS. TP 235 PSI. Ø PSI ON ANNULUS. OPENED WELL - GAS ONLY. RELEASED PKR. LD PKR. WIH W/SEATING NIPPLE, 2 JTS TBG & TBG ANCHOR. REMOVED BOP & NU TBG HANGER. SET ANCHOR & PULLED 20# OF TENSION. SET TBG AS LOW AS POSSIBLE IN HANGER. SN 5536'. TURNED WELL OVER TO PRODUCTION. SDON..	
8	02/08/84 AFE: U863 PBTD 5744. TEFTELER RAN STATIC BOTTOM HOLE PRESSURE. STARTED IH W/RODS & PUMP..	
9	02/09/84 AFE: U863 PBTD 5744. WO ELECTRICAL HOOK-UP. PUMPING ASSEMBLY - 60% COMPLETE..	
10	02/10/84 AFE: U863 PBTD 5744. WO ELECTRICAL HOOK-UP. PUMPING UNIT ASSEMBLY - 95% COMPLETE.	
11-13	02/13/84 AFE: U863 PBTD 5744. 2/11/84 - PMPG UNIT ASSEMBLE COMPLETED. STARTED PUMPING AT 10:30 AM, 2/10/84. 1-3/4" PUMP, 74" STROKE, 9.7 SPM AT 5536'. 2/12/84 & 2/13/84 - PMPG TO PRODUCTION, NO TESTS..	
14	02/14/84 AFE: U863 PBTD 5744. PMPG TO PROD, NO TEST..	
15	02/15/84 AFE: U863 PBTD 5744. PMPD TO PROD, NO TEST..	
16	02/16/84 AFE: U863 PBTD 5744. PMPD TO PROD, NO TEST..	
17	02/17/84 AFE: U863 PBTD 5744. DOWN 24 HRS, HIGH FLOW LINE PRESSURE.	
18-21	02/21/84 AFE: U863 PBTD 5744. 2/18/84 THRU 2/21/84 - DOWN - FLOWLINE FROZEN..	
22	02/22/84 AFE: U863 PBTD 5744. PMPG TO PRODUCTION, NO TEST..	
23	02/23/84 AFE: U863 PBTD 5744. PMPG TO PRODUCTION, NO TEST..	
24	02/24/84 AFE: U862 PBTD 5744. PMPD TO PROD, NO TEST.	
25-27	02/27/84 AFE: U863 PBTD 5744. 2/25/84 THRU 2/27/84 - PMPD TO PROD 72 HRS, NO TESTS..	

DAILY REPORT DETAILED

LEASE RATHERFORD UNIT WELL NO. 29-33 SHEET NO. 7

1984 DATE	NATURE OF WORK PERFORMED	TOTAL DEPTH
February 28	Ø2/28/84 AFE: U863 PBTD 5744. SHUT-IN DUE TO PROBLEMS W/PUMP. PMPD 23 HRS TO PRODUCTION, NO TEST..	
29	Ø2/29/84 AFE: U863 PBTD 5744. SHUT-IN DUE TO PROBLEMS W/PUMP..	
March 1	Ø3/Ø1/84 AFE: U863 PBTD 5744. SHUT-IN, INSTALLED PUMP STRAINER..	

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

10

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [XX] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Phillips Oil Company

3. ADDRESS OF OPERATOR: P.O. Box 2920, Casper, WY 82602

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1860' FSL & 1820' FEL, NW SE
At top prod. interval reported below
At total depth

API #43-037-30932

RECEIVED
MAR 22 1984
DIVISION OF OIL, GAS & MINING

14. PERMIT NO. 43-037-30932 DATE ISSUED

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-603-407
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo
7. UNIT AGREEMENT NAME: SW-I-4192
8. FARM OR LEASE NAME: Ratherford Unit
9. WELL NO.: 29-33
10. FIELD AND POOL, OR WILDCAT: Greater Aneth
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 29-T41S-R24E
12. COUNTY OR PARISH: San Juan
13. STATE: Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
12/26/83	1/7/84	1/25/84	GR 4915', RKB 4927'	---

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5800'	5744'	--	→	0 - 5800'	---

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
5640' - 5726½' Desert Creek Zone I & Ismay

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN
DLL-MSFL-GR-CAL, FDC-CNL, CBL

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	118'	18"	180 ft³ Class B	---
9-5/8"	36#	1600'	12-1/4"	1080 ft³ Class B	---
7"	23# & 26#	5800'	8-3/4"	1320 ft³ Class B	---

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
--	---	--	--	--

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5536'	---

31. PERFORATION RECORD (*Interval, size and number*)
SEE ATTACHMENT

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	SEE ATTACHMENT

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
1/25/84	Pumping 1-3/4" pump	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3/18/84	24	--		94	43	27	457

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
--	--		94	43	27	40.0

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)
Sold

TEST WITNESSED BY: --

35. LIST OF ATTACHMENTS
Acid, Shot, Fracture, Cement Squeeze and Perforation Record

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED A. E. Stuart TITLE Area Manager DATE 3/20/84

*(See Instructions and Spaces for Additional Data on Reverse Side)

4 - BLM, Farmington
2 - Utah O&G CC, SLC, Utah
1 - BIA, Shiprock, NM
1 - Navajo Nation
1 - B. Conner, B'Ville
1 - Whitmire, Denver
1 - Poling, Denver
1 - Coffelt, Denver
1 - W.I. Owners
1 - Fraser, Denver
1 - File -RC

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
	LOG TOPS	
Shinarump		2440'
DeChelly		2740'
Hermosa		4750'
Paradox		5520'

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

GPO 870-401

Attachment to Form 9-330
Ratherford Unit #29-33

ACID, SHOT, FRACTURE, CEMENT SQUEEZE & PERFORATION RECORD

5708½-5726½' - 2 SPF, 4" hollow steel carrier gun
Shot did not fire at 5718½', 35 shots.
5706-5708½' - 2 SPF, 4" hollow steel carrier gun
Shot did not fire at 5708', 4 shots.

5706-5726½' - Spotted 250 gal 28% HCL w/2 gal/1000 NAI-166, 5 gal/1000 NNE-257N, 50#/1000 NIS-546 & 5 gal/1000 NFS-282N. Pumped 2450 gal acid. Dropped 82, 1.3 sp grav., ball sealers throughout. Displd w/41 bbls lse wtr.

Set BP at 5701' to perforate upper interval.

5640 - 5644' - 2 SPF, 4" hollow steel carrier gun
5674 - 5696' - 2 SPF, 4" hollow steel carrier gun
54 holes total

5640 - 5696' - Acidized w/4000 gal 28% FE acid w/2 gal/1000 NAI-50, 1 gal/1000 NC-2 & 3 gal/1000 Lo-Surf 259. Cleared tbg of all acid & pumped 30 bbls down annulus.

Pulled BP at 5701'. WIH, set pkr at 5634'.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form 9-329 Rev. Feb 76
OMB 42-R0356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 14 20-603-407

Communitization Agreement No. NA
Field Name Greater Aneth
Unit Name Ratherford Unit (SW-I-4192)
Participating Area Paradox
County San Juan State Utah
Operator Phillips Oil Company

☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of March, 19 84

(See Reverse of Form for Instructions)

APR 6 1984

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & ¼ of ¼	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
29-33	Sec. 29 NW SE	41S	24E	DRG			FINAL REPORT		
						PBTD 5744. Completed as a pmpg oil well 1/25/84 from Desert Creek Zone I & Ismay perfs 5640-5726½', with a test run 3/18/84 of 94 BOPD, 43 MCFGPD, 27 BWPD, GOR 457.			

RECEIVED
APR 9 1984
DIVISION OF
OIL, GAS & MINING

*If none, so state.

Disposition of production (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Produced			
*Sold			XXXXXXXXXXXXXXXX
*Spilled or Lost		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXX		XXXXXXXXXXXXXXXX
*Used on Lease			XXXXXXXXXXXXXXXX
*Injected			
*Surface Pits	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX	
*Other (Identify)			
*On hand, End of Month		XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXX
*API Gravity/BTU Content			XXXXXXXXXXXXXXXX

Authorized Signature: A. E. Stuart Address: P.O. Box 2920, Casper, WY 82602

Title: Area Manager

Page 1 of 1

Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Phillips Oil Company

3. ADDRESS OF OPERATOR: P. O. Box 2920 Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1860' FSL & 1820' FEL, NW SE

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-603-407

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo

7. UNIT AGREEMENT NAME: SW-I-4192

8. FARM OR LEASE NAME: Ratherford Unit

9. WELL NO.: 29-33

10. FIELD AND POOL, OR WILDCAT: Greater Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec.29-T41S-R24E

14. PERMIT NO.: API #43-037-30932

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 4927' RKB

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF		PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING WELL	
FRACTURE TREAT		MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CASING	
SHOOT OR ACIDIZE	X	ABANDON*		SHOOTING OR ACIDIZING		ABANDONMENT*	
REPAIR WELL		CHANGE PLANS		(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

It is proposed to acidize Ratherford Unit #29-33 with 500 gals. 28% HCL and 6000 gals. Super X Emulsion (Dowell Product, 70% - 28% HCL and 30% Diesel mixture). Existing perforations are 5640'-44', 5674'-96', and 5706'-24'. A small pit will be required on location during the workover. Upon completion, the pit will be dried and recovered.

5- BLM Farmington, NM
2- Utah O&GCC, Salt Lake City, Utah
1- P.J. Adamson
1- C. M. Anderson
1- B. Conner 318 - B-TRW
1- J. R. Weichbrodt
1- File

18. I hereby certify that the foregoing is true and correct

SIGNED A. E. Stuart TITLE Area Manager DATE November 26, 1984

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED ~~APPROVED~~ BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 12/12/84
BY: John R. Baza

Federal approval of this action is required before commencing operations.

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

orm 3160-5
November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.	14-20-603-407
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	Navajo
7. UNIT AGREEMENT NAME	SW-I-4192
8. FARM OR LEASE NAME	Ratherford Unit
9. WELL NO.	29-33
10. FIELD AND POOL, OR WILDCAT	Greater Aneth
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	Sec. 29-T41S-R24E
12. COUNTY OR PARISH	San Juan
13. STATE	Utah

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Phillips Oil Company

3. ADDRESS OF OPERATOR: P.O. Box 2920, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1860' FSL & 1820' FEL, NW SE

14. PERMIT NO.: 43-037-30932

15. ELEVATIONS (Show whether DF, RT, GR, etc.): RKB 4972'

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[X]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

February 2, 1985 through February 9, 1985

PBTD 5744. Acidized w/500 gals 28% MSR100 & 6000 gals Super X Emulsion. Returned to pumping 2/6/85 from Desert Creek Zone I perfs with a final test of 21 BOPD, 7 MCFGPD est., 36 BWPD.

4 - BLM, Farmington, NM
2 - Utah O&GCC, Salt Lake City, Utah
1 - B. A. Conner, B'Ville
1 - File (RC)

18. I hereby certify that the foregoing is true and correct

SIGNED A. E. Stuart TITLE Area Manager DATE 5/13/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1-~~VLC~~/7-SJ	
2-~~DTS~~/8-FILE	
3-VLC	
4-RJF	
5-~~RJF~~	
6-PL	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

XX Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 7-1-93)

TO (new operator) MEPNA
(address) PO DRAWER G
CORTEZ, CO 81321
GLEN COX (915)688-2114
phone (303) 565-2212
account no. N7370

FROM (former operator) PHILLIPS PETROLEUM COMPANY
(address) 5525 HWY 64 NBU 3004
FARMINGTON, NM 87401
PAT KONKEL
phone (505) 599-3452
account no. N0772(A)

Well(s) (attach additional page if needed): *RATHERFORD UNIT (NAVAJO)

Name: **SEE ATTACHED**	API: 43-037-30932	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:

OPERATOR CHANGE DOCUMENTATION

Lec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Req. 8-20-93) (6/93 Prod. Rpt. 8-16-93)

Lec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Req. 8-31-93) (Rec'd 9-14-93)

N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.

Lec 4. **(For Indian and Federal Wells ONLY)** The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.

Lec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (O&G wells 10-6-93) (WIW's 10-26-93)

Lec 6. Cardex file has been updated for each well listed above. (O&G wells 10-6-93) (WIW's 10-26-93)

Lec 7. Well file labels have been updated for each well listed above. (O&G wells 10-6-93) (WIW's 10-26-93)

Lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (10-6-93)

Lec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

– OVER –

PERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

NTITY REVIEW

Lec 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ____ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).

N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

OND VERIFICATION (Fee wells only)

Lec/N/A 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.

__ 2. A copy of this form has been placed in the new and former operators' bond files.

__ 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date _____ 19___. If yes, division response was made by letter dated _____ 19___.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

N/A 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated _____ 19___, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.

DTS 9-10-93

N/A 2. Copies of documents have been sent to State Lands for changes involving **State leases.**

ILMING

✓ 1. All attachments to this form have been microfilmed. Date: 11-17 1993.

FILING

Lec 1. Copies of all attachments to this form have been filed in each well file.

Lec 2. The original of this form and the original attachments have been filed in the Operator Change file.

OMMENTS

931006 BIA/Bkm Approved 7-9-93.

E71/34-35

FORM 10

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

P J KONKEL
PHILLIPS PETROLEUM COMPANY
5525 HWY 64 NBU 3004
FARMINGTON NM 87401

RECEIVED
AUG 16 1993
DIVISION OF
OIL, GAS & MINING

UTAH ACCOUNT NUMBER: N0772

REPORT PERIOD (MONTH/YEAR): 6 / 93

AMENDED REPORT ☐ (Highlight Changes)

Well Name / API Number	Entity	Location	Producing Zone	Well Status	Days Oper	Production Volumes OIL(BBL)	GAS(MCF)	WATER(BBL)
#21-23 4303713754	06280	41S 24E 21	DSCR	POW	29	1374	883	58
#3-44 4303715031	06280	41S 24E 3	DSCR	POW	30	111	94	2905
#3-14 4303715124	06280	41S 24E 3	DSCR	POW	30	67	23	302
#9-12 4303715126	06280	41S 24E 9	DSCR	POW	30	112	654	17363
#9-14 4303715127	06280	41S 24E 9	DSCR	POW	30	201	315	423
#28-12 4303715336	06280	41S 24E 28	PRDX	POW	29	112	47	2428
#29-12 4303715337	06280	41S 24E 29	PRDX	POW	29	56	0	672
#29-32 4303715339	06280	41S 24E 29	DSCR	POW	29	1402	287	2224
#29-34 4303715340	06280	41S 24E 29	DSCR	POW	29	757	48	0
#30-32 4303715342	06280	41S 24E 30	DSCR	POW	29	588	1049	3744
#3-12 4303715620	06280	41S 24E 3	DSCR	POW	30	268	11	363
#9-34 4303715711	06280	41S 24E 9	DSCR	POW	30	45	46	9800
#10-12 4303715712	06280	41S 24E 10	DSCR	POW	30	45	23	1088
					TOTALS	5138	3480	41370

USUM 8-18-93

COMMENTS: Effective July 1, 1993, Phillips Petroleum Company has sold its interest in the Ratherford Unit to Mobil Exploration and Producing U.S., Incorporated, P. O. Box 633, Midland, Texas 79702. Mobil assumed operations on July 1, 1993.

I hereby certify that this report is true and complete to the best of my knowledge. Date: 8/11/93

Name and Signature: PAT KONKEL Pat Konkel Telephone Number: 505 599-3452

(6/93)

19W-21	43-037-15741	14-20-603-353	SEC. 19, T41S, R24E	NE/NW 660' FNL 1860' FWL
19-22	43-037-31046	14-20-603-353	SEC. 19, T41S, R24E	SE/NW 1840' FNL; 1980' FWL
19W-23	43-037-15742	14-20-603-353	SEC. 19, T41S, R24E	NE/SW 2080' FSL; 1860' FWL
19-31	43-037-31047	14-20-603-353	SEC. 19, T41S, R24E	NW/NE 510' FNL; 1980' FEL
19-32	43-037-15743	14-20-603-353	SEC. 19, T41S, R24E	SW/NE 1980' FNL; 1980' FEL
19-33	43-037-31048	14-20-603-353	SEC. 19, T41S, R24E	NW/SE 1980' FSL; 1980' FEL
19-34	43-037-15744	14-20-603-353	SEC. 19, T41S, R24E	SW/SE 660' FSL; 1980' FEL
19W-41	43-037-15745	14-20-603-353	SEC. 19, T41S, R24E	NE/NE 660' FNL; 660' FEL
19-42	43-037-30916	14-20-603-353	SEC. 19, T41S, R24E	SE/NE 1880' FNL, 660' FEL
19W-43	43-037-16420	14-20-603-353	SEC. 19, T41S, R24E	NE/SE 1980' FSL; 760' FEL
19-44	43-037-31081	14-20-603-353	SEC. 19, T41S, R24E	SE/SE 660' FSL; 660' FEL
19-97	43-037-31596	14-20-603-353	SEC. 19, T41S, R24E	2562' FNL, 30' FEL
20-11	43-037-31049	14-20-603-353	SEC. 20, T41S, R24E	NW/NW 500' FNL; 660' FWL
20-12	43-037-15746	14-20-603-353	SEC. 20, T41S, R24E	1980' FNL, 660' FWL
20-13	43-037-30917	14-20-603-353	SEC. 20, T41S, R24E	NW/SW 2140' FSL, 500' FWL
20-14	43-037-15747	14-20-603-353	SEC. 20, T41S, R24E	660' FSL; 660' FWL
20W-21	43-037-16423	14-20-603-353	SEC. 20, T41S, R24E	660' FNL; 1880' FWL
20-22	43-037-30930	14-20-603-353	SEC. 20, T41S, R24E	SE/NW 2020' FNL; 2090' FWL
20W-23	43-037-15748	14-20-603-353	SEC. 20, T41S, R24E	NW/SW 2080; 2120' FWL
20-24	43-037-30918	14-20-603-353	SEC. 20, T41S, R24E	SE/SW 820' FSL; 1820' FWL
20-31	43-037-31050	14-20-603-353	SEC. 20, T41S, R24E	NW/NE 660' FNL; 1880' FEL
20-32	43-037-15749	14-20-603-353	SEC. 20, T41S, R24E	SW/NE 1980' FNL, 1980' FEL
20-33	43-037-30931	14-20-603-353	SEC. 20, T41S, R24E	NW/SE 1910' FSL; 2140' FEL
20-34	43-037-15750	14-20-603-353	SEC. 20, T41S, R24E	660' FSL; 1850' FEL
20W-41	43-037-15751	14-20-603-353	SEC. 20, T41S, R24E	NE/NE 660' FNL; 660' FEL — PA'd
20-42	43-037-31051	14-20-603-353	SEC. 20, T41S, R24E	SE/NE 1980 ' FNL; 660' FEL
20W-43	43-037-16424	14-20-603-353	SEC. 20, T41S, R24E	2070' FSL; 810' FEL
20-44	43-037-30915	14-20-603-353	SEC. 20, T41S, R24E	SE/SE 620' FSL; 760' FEL
20-66	43-037-31592	14-20-603-353	SEC. 20, T41S, R24E	SW/NW 1221' FWL; 1369' FNL
21-11	43-037-31052	14-20-603-355	SEC. 21, T41S, R24E	NW/NW 660' FNL; 660 FWL
21-12	43-037-15752	14-20-603-355	SEC. 21, T41S, R24E	2080' FNL; 660' FWL
21-13	43-037-30921	14-20-603-355	SEC. 21, T41S, R24E	NW/SW 2030' FSL; 515' FWL
21-14	43-037-15753	14-20-603-355	SEC. 21, T41S, R24E	SW/SW 660' FSL; 460' FWL
21W-21	43-037-16425	14-20-603-355	SEC. 21, T41S, R24E	NE/NW 660' FNL; 2030' FWL
21-32	43-037-15755	14-20-603-355	SEC. 21, T41S, R24E	SW/NE 1880' FNL; 1980' FEL
~~21-33~~	~~NA~~	~~14-20-603-355~~	~~SEC. 21, T41S, R24E~~	~~2000 FSL, 1860' FEL~~
21-34	43-037-15756	14-20-603-355	SEC. 21, T41S, R24E	SW/SE 660' FSL; 1980' FEL
21W-41	43-037-16426	14-20-603-355	SEC. 21, T41S, R24E	660' FNL; 810' FEL — PA'd
21W-43	43-037-16427	14-20-603-355	SEC. 21, T41S, R24E	NE/NE 1980' FSL; 660' FEL
24-11	43-037-15861	14-20-603-247A	SEC. 24, T41S, R24E	510' FNL; 810' FWL — PA'd
24W-21	43-037-16429	14-20-603-247	SEC. 24, T41S, R24E	4695' FSL; 3300' FEL — PA'd
24W-43	43-037-16430	14-20-603-247	SEC. 24, T41S, R24E	2080' FSL; 660' FEL
24-31W	43-037-15862	14-20-603-247A	SEC. 24, T41S, R24E	NW/NE 560' FNL; 1830' FEL
24-32	43-037-31593	14-20-603-247A	SEC. 24, T41S, R24E	SW/NE 2121' FNL; 1846' FEL
24-41	43-037-31132	14-20-603-247A	SEC. 24, T41S, R24E	NE/NE 660' FNL; 710' FEL
24W-42	43-037-15863	14-20-603-247A	SEC. 24, T41S, R24E	660' FSL; 1980' FNL
28-11	43-037-30446	14-20-603-409	SEC. 28, T41S, R24E	NW/NW 520' FNL; 620' FWL
28-12	43-037-15336	14-20-603-409B	SEC. 28, T41S, R24E	SW/SE/NW 2121' FNL; 623' FWL
29-11	43-037-31053	14-20-603-407	SEC. 29, T41S, R24E	NW/NW 770' FNL; 585' FWL
29W-21	43-037-16432	14-20-603-407	SEC. 29, T41S, R24E	NE/NW 667' FNL; 2122' FWL
29-22	43-037-31082	14-20-603-407	SEC. 29, T41S, R24E	SE/NW 2130' FNL; 1370' FWL
29W-23	43-037-15338	14-20-603-407	SEC. 29, T41S, R24E	NE/SW 1846' FSL; 1832' FWL
29-31	43-037-30914	14-20-603-407	SEC. 29, T41S, R24E	NW/NE 700' FNL; 2140' FEL
29-32	43-037-15339	14-20-603-407	SEC. 29, T41S, R24E	1951' FNL; 1755' FEL
29-33	43-037-30932	14-20-603-407	SEC. 29, T41S, R24E	NW/SE 1860' FSL; 1820' FEL
29-34	43-037-15340	14-20-603-407	SEC. 29, T41S, R24E	817 FSL; 2096' FEL
29W-41	43-037-16433	14-20-603-407	SEC. 29, T41S, R24E	557' FNL; 591' FEL
29W-42	43-037-30937	14-20-603-407	SEC. 29, T41S, R24E	SE/NE 1850' FNL; 660' FEL
29W-43	43-037-16434	14-20-603-407	SEC. 29, T41S, R24E	NE/SE 1980' FSL; 660' FEL
30-21W	43-037-16435	14-20-603-407	SEC. 30, T41S, R24E	660' FNL; 1920' FWL
30-32	43-037-15342	14-20-603-407	SEC. 30, T41S, R24E	SW/NE 1975' FNL; 2010' FEL
30W-41	43-037-15343	14-20-603-407	SEC. 30, T41S, R24E	NE/NE 660' FNL; 660' FEL
9-34	NA 43037157II	NA 14206034043	NA Sec. 9, T. 41S, R. 24E	NA SWSE 660' FSL 1980 FEL
12-43	43-307-31202	14-20-603-246	SEC. 12. T41S. R23E	2100' FSL;660 FEL
12W31	43-037-15847	14-20-603-246	SEC. 12, T41S, R23E	661' FNL;, 1981' FEL
13W24	43-037-15853	14-20-603-247	SEC. 13, T41S, R23E	SE/SW 660' FSL;3300'FEL
15W23	43-037-16412	14-20-603-355	SEC. 15, T41S, R24E	2140' FSL;1820' FWL
17-24	43-037-31044	14-20-603-353	SEC. 17, T41S, R24E	SE/SW 720' FSL; 1980' FWL
18-13	43-037-15734	14-20-603-353	SEC. 18, T41S, R24E	NW/NW 1980' FSL;500' FWL
18W32	43-037-15736	14-20-603-353	SEC. 18, T41S, R24E	SW/NE2140'FNL;1830' FEL
20-68	43-037-31591	14-20-603-353	SEC. 20, T41S, R24E	NW/SW 1276' FWL;1615' FSL
21-23	43-037-13754	14-20-603-355	SEC. 21, T41S, R24E	NE/SW 1740 FSL 1740 FWL
28W21	43-037-16431	14-20-603-409	SEC.29, T41S, R24E	660' FNL; 2022' FWL

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION & SERIAL NO.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO TRIBAL

1. OIL WELL ☐ GAS WELL ☐ OTHER

7. UNIT AGREEMENT NAME: RATHERFORD UNIT

2. NAME OF OPERATOR: MOBIL OIL CORPORATION

8. FARM OR LEASE NAME

3. ADDRESS OF OPERATOR: P. O. BOX 633 MIDLAND, TX 79702

9. WELL NO.

RECEIVED
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DIVISION OF
OIL, GAS & MINING

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface

At proposed prod. zone

10. FIELD AND POOL, OR WILDCAT: GREATER ANETH

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

14. API NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY	13. STATE
		SAN JUAN	UTAH

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) CHANGE OF OPERATOR			☐
(Other)			☐	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			
APPROX. DATE WORK WILL START _____				DATE OF COMPLETION _____			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

* Must be accompanied by a cement verification report.

AS OF JULY1, 1993, MOBIL OIL CORPORATION IS THE OPERATOR OF THE RATHERFORD UNIT. ATTACHED ARE THE INDIVIDUAL WELLS.

18. I hereby certify that the foregoing is true and correct

SIGNED Shirley Todd TITLE ENV. & REG TECHNICIAN DATE 9-8-93

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

(3/89)

FORM 11

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

MONTHLY OIL AND GAS DISPOSITION REPORT

OPERATOR NAME AND ADDRESS:

L.S. Sheffield
~~BRIAN BERRY~~
~~M E P N A~~ MOBIL
~~POB 219031 1807A RENTWR~~ P.O. DRAWER G
DALLAS TX 75221-9031 CORTEZ, Co. 81321

UTAH ACCOUNT NUMBER: N7370

REPORT PERIOD (MONTH/YEAR): 7 / 93

AMENDED REPORT ☐ **(Highlight Changes)**

#93100le updated. fee

ENTITY NUMBER	PRODUCT	GRAVITY BTU	BEGINNING INVENTORY	VOLUME PRODUCED	DISPOSITIONS TRANSPORTED	DISPOSITIONS USED ON SITE	DISPOSITIONS FLARED/VENTED	DISPOSITIONS OTHER	ENDING INVENTORY
05980	OIL			177609	177609	0			
	GAS			72101	66216	5885			
11174	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	OIL								
	GAS								
	TOTALS			249710	243825	5885			

RECEIVED
SEP 13 1993
DIVISION OF
OIL, GAS & MINING

COMMENTS: PLEASE NOTE ADDRESS CHANGE. MOBIL ~~E&P~~ PRODUCTION REPORTS WILL BE COMPILED AND SENT FROM THE CORTEZ, Co. OFFICE IN THE FUTURE.

I hereby certify that this report is true and complete to the best of my knowledge.

Date: 9/6/93

Name and Signature: Lowell B Sheffield

Telephone Number: 303 565 2212 ~~214 658 2538~~

(6/93)

FORM=NR0003.FRM 07/2

Sept 29, 1993

TO: Lisha Cordova - Utah Mining Oil & Gas

FROM: Janice Easley
BLM Farmington, NM
505 599-6355

Here is copy of Rutherford Unit Successor Operator.

4 pages including this one.

Ratherford Unit (GC)

Navajo Area Office
P. O. Box 1060
Gallup, New Mexico 87305-1060

ARES/543

JUL 26 1993

Mr. G. D. Cox
Mobil Exploration and
Producing North America, Inc.
P. O. Box 633
Midland, Texas 79702

Dear Mr. Cox:

Enclosed for your information and use is the approved Designation of Operator between the Phillips Petroleum Company and Mobil Exploration and Producing North America, Inc. for the Ratherford Unit.

Please note that all other concerned parties will be furnished their copy of the approved document.

Sincerely,

ACTING Area Director

Enclosure

cc: Bureau of Land Management, Farmington District Office w/enc.
TNN, Director, Minerals Department w/enc.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS

DESIGNATION OF OPERATOR

Phillips Petroleum Company is, on the records of the Bureau of Indian Affairs, operator of the Ratherford Unit,

AREA OFFICE: Window Rock, Arizona
LEASE NO: Attached hereto as Exhibit "A"

and, pursuant to the terms of the Ratherford Unit Agreement, is resigning as Unit Operator effective July 1, 1993, and hereby designates

NAME: Mobil Exploration and Producing North America Inc., duly elected pursuant to the terms of the Ratherford Unit Agreement,

ADDRESS: P. O. Box 633, Midland, Texas 79702
Attn: G. D. Cox

as Operator and local agent, with full authority to act on behalf of the Ratherford Unit lessees in complying with the terms of all leases and regulations applicable thereto and on whom the authorized officer may serve written or oral instructions in securing compliance with the Operating Regulations (43 CFR 3160 and 25 CFR 211 and 212) with respect to (described acreage to which this designation is applicable):

Attached hereto as Exhibit "A"

Bond coverage under 25 CFR 211, 212 or 225 for lease activities conducted by the above named designated operator is under Bond Number 05202782 (attach copy). Evidence of bonding is required prior to the commencement of operations.

It is understood that this designation of operator does not relieve any lessee of responsibility for compliance with the terms of the leases and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the leases.

In case of default on the part of the designated operator, the lessees will make full and prompt compliance with all regulations, lease terms, stipulations, or orders of the Secretary of the Interior or his representative.

Attached is the appropriate documentation relevant to this document.

The designated operator agrees to promptly notify the authorized officer of any change in the operatorship of said Ratherford Unit.

Phillips Petroleum Company

June 17, 1993 By: M. B. Frost, J.
Attorney-in-Fact

Mobil Exploration and Producing
North America Inc.

June 11, 1993 By: B. D. Martiny
Attorney-in-Fact B.D. MARTINY

ACTING AREA DIRECTOR 7/9/93
APPROVED BY TITLE DATE

APPROVED PURSUANT, TO SECRETARIAL REDELEGATION ORDER 209 DM 8 AND 230 DM 3.
This form does not constitute an information collection as defined by 44 U.S.C. 3502 and therefore does not require OMB approval.

EXHIBIT "A"

ATTACHED TO AND MADE A PART OF DESIGNATION OF SUCCESSOR OPERATOR, RATHERFORD UNIT

EXHIBIT "C"

Revised as of September 29, 1992)
SCHEDULE OF TRACT PERCENTAGE PARTICIPATION

Tract Number	Description of Land	Serial Number and Effective Date of Lease	Tract Percentage Participation
1	S/2 Sec. 1, E/2 SE/4 Sec. 2, E/4 Sec. 11, and all of Sec. 12, T-41-S, R-23-E, S.L.M. San Juan County, Utah	14-20-603-246-A Oct. 5, 1953	11.0652565
2	SE/4 and W/2 SW/4 Sec. 5, the irregular SW/4 Sec. 6, and all of Sec. 7 and 8, T-41-S, R-24-E, San Juan County, Utah	14-20-603-368 Oct. 26, 1953	14.4159942
3	SW/4 of Sec. 4, T-41-S, R-24-E, San Juan County, Utah	14-20-603-5446 Sept. 1, 1959	.5763826
4	SE/4 Sec. 4, and NE/4 Sec. 9, T-41-S, R-24-E, San Juan County, Utah	14-20-603-4035 March 3, 1958	1.2587779
5	SW/4 of Sec. 3, T-41-S, R-24-E, S.L.M., San Juan County, Utah	14-20-603-5445 Sept. 3, 1959	.4667669
6	NW/4 of Sec. 9, T-41-S, R-24-E, S.L.M., San Juan County, Utah	14-20-603-5045 Feb. 4, 1959	1.0187043
7	NW/4, W/2 NE/4, and SW/4 Sec. 10, SE/4 Sec. 9, T-41-S, R-24-E, San Juan County, Utah	14-20-603-4043 Feb. 18, 1958	3.5097575
8	SW/4 Sec. 9, T-41-S, R-24-E, S.L.M. San Juan County, Utah	14-20-603-5046 Feb. 4, 1959	1.1141679
9	SE/4 Sec. 10 and S/2 SW/4 Sec. 11 T-41-S, R-24-E, San Juan County, Utah	14-20-603-4037 Feb. 14, 1958	2.6186804
10	All of Sec. 13, E/2 Sec. 14, and E/2 SE/4 and N/2 Sec. 24, T-41-S, R-23-E, S.L.M., San Juan County, Utah	14-20-603-247-A Oct. 5, 1953	10.3108861
11	Sections 17, 18, 19 and 20, T-41-S, R-24-E, San Juan County Utah	14-20-603-353 Oct. 27, 1953	27.3389265
12	Sections 15, 16, 21, and NW/4, and W/2 SW/4 Sec. 22, T-41-S, R-24-E, San Juan County, Utah	14-20-603-355 Oct. 27, 1953	14.2819339
13	W/2 Section 14, T-41-S, R-24-E, San Juan County, Utah	14-20-603-370 Oct. 26,1953	1.8500847
14	N/2 and SE/4, and E/2 SW/4 Sec. 29, NE/4 and E/2 SE/4 and E/2 W/2 irregular Sec. 30, and E/2 NE/4 Sec. 32, T-41-S, R-24-E, San Juan County, Utah	14-20-603-407 Dec. 10, 1953	6.9924969
15	NW/4 Sec. 28, T-41-S, R24-E San Juan County, Utah	14-20-603-409 Dec. 10, 1953	.9416393
16	SE/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6504 July 11, 1961	.5750254
17	NE/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6505 July 11, 1961	.5449292
18	NW/4 Sec. 3, T-41-S, R-24-E San Juan County, Utah	14-20-0603-6506 July 11, 1961	.5482788
19	NE/4 Sec. 4, T-41-S, R24-E San Juan County, Utah	14-20-0603-7171 June 11, 1962	.4720628
20	E/2 NW/4 Sec. 4, T-41-S, R-24-E San Juan County, Utah	14-20-0603-7172 June 11, 1962	.0992482
100% Indian Lands		TOTAL 12,909.74	100.0000000

Division of Oil, Gas and Mining

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

[] Well File _____

_____

(Location) Sec___Twp___Rng___

(API No.) _____

[] Suspense

(Return Date) _____

(To - Initials) _____

[XX] Other

OPERATOR CHANGE

_____

_____

1. Date of Phone Call: 10-6-93 Time: 9:30

2. DOGM Employee (name) L. CORDOVA (Initiated Call [XX])

Talked to:

Name GLEN COX (Initiated Call []) - Phone No. (915)688-2114

of (Company/Organization) MOBIL

3. Topic of Conversation: OPERATOR CHANGE FROM PHILLIPS TO MOBIL "RATHERFORD UNIT".

(NEED TO CONFIRM HOW OPERATOR WANTS THE WELLS SET UP - MEPNA AS PER BIA APPROVAL OR MOBIL OIL CORPORATION AS PER SUNDRY DATED 9-8-93?)

4. Highlights of Conversation:

MR. COX CONFIRMED THAT THE WELLS SHOULD BE SET UNDER ACCOUNT N7370/MEPNA AS PER BIA APPROVAL, ALSO CONFIRMED THAT PRODUCTION & DISPOSITION REPORTS WILL NOW BE HANDLED OUT OF THEIR CORTEZ OFFICE RATHER THAN DALLAS.

MEPNA-

PO DRAWER G

CORTEZ, CO 81321

(303)565-2212

*ADDRESS CHANGE AFFECTS ALL WELLS CURRENTLY OPERATORED BY MEPNA, CURRENTLY REPORTED OUT OF DALLAS (MCELMO CREEK).

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1-LEC	7-PL
2-LWP	8-SJ
3-DTS	9-FILE
4-VLC	
5-RJF	
6-LWP	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

☐ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator XXX Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: **8-2-95**)

TO (new operator) **MOBIL EXPLOR & PROD**	FROM (former operator) **M E P N A**
(address) **C/O MOBIL OIL CORP**	(address) **C/O MOBIL OIL CORP**
PO DRAWER G	**PO DRAWER G**
CORTEZ CO 81321	**CORTEZ CO 81321**
phone **(303) 564-5212**	phone **(303)564-5212**
account no. **N7370**	account no. **N7370**

Well(s) (attach additional page if needed):

Name: **** SEE ATTACHED ****	API: 037 30932	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:

OPERATOR CHANGE DOCUMENTATION

N/A 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form).

N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).

N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.

N/A 4. **(For Indian and Federal Wells ONLY)** The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.

Lec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (8-3-95)

LWP 6. Cardex file has been updated for each well listed above. 8-31-95

LWP 7. Well file labels have been updated for each well listed above. 9-28-95

Lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (8-3-95)

Lec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

– OVER –

OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

Lec 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ___ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).

N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only) * No Fee Lease Wells at this time!

N/A/Lec 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.

___ 2. A copy of this form has been placed in the new and former operators' bond files.

___ 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date _____ 19___. If yes, division response was made by letter dated _____ 19___.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

N/A 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated _____ 19___, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
DTS 8/5/95

N/A 2. Copies of documents have been sent to State Lands for changes involving **State leases**.

FILMING

✓ 1. All attachments to this form have been microfilmed. Date: October 6 1995.

FILING

___ 1. Copies of all attachments to this form have been filed in each well file.

___ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

950803 UIC F5/Not necessary!

FORM 10

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

C/O MOBIL OIL CORP
M E P N A
PO DRAWER G
CORTEZ CO 81321

UTAH ACCOUNT NUMBER: N7370

REPORT PERIOD (MONTH/YEAR): 6 / 95

AMENDED REPORT ☐ **(Highlight Changes)**

Well Name / API Number / Entity / Location	Producing Zone	Well Status	Days Oper	Production Volumes OIL(BBL)	GAS(MCF)	WATER(BBL)
#20-13 4303730917 06280 41S 24E 20	DSCR					
#20-24 4303730918 06280 41S 24E 20	DSCR					
#21-13 4303730921 06280 41S 24E 21	DSCR					
#20-22 4303730930 06280 41S 24E 20	DSCR					
RATHERFORD UNIT 20-33 4303730931 06280 41S 24E 20	DSCR					
#29-33 4303730932 06280 41S 24E 29	IS-DC					
'THERFORD UNIT 29-42 .303730937 06280 41S 24E 29	DSCR					
RATHERFORD UNIT 17-24 4303731044 06280 41S 24E 17	DSCR					
RATHERFORD UNIT 18-44 4303731045 06280 41S 24E 18	DSCR					
RATHERFORD UNIT 19-22 4303731046 06280 41S 24E 19	DSCR					
RATHERFORD UNIT 19-31 4303731047 06280 41S 24E 19	DSCR					
RATHERFORD UNIT 19-33 4303731048 06280 41S 24E 19	DSCR					
RATHERFORD UNIT 20-11 4303731049 06280 41S 24E 20	DSCR					
			TOTALS			

COMMENTS: _____

I hereby certify that this report is true and complete to the best of my knowledge. Date: _____

Name and Signature: _____ Telephone Number: _____

2/93

Division of Oil, Gas and Mining

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

[ ] **Well File** _____

_____

(Location) Sec___Twp___Rng___

(API No.) _____

[ ] Suspense

(Return Date) _____

(To - Initials) _____

XXX Other

OPER NM CHG

1. Date of Phone Call: 8-3-95 Time: _____

2. DOGM Employee (name) L. CORDOVA (Initiated Call [ ])
   Talked to:

   Name R. J. FIRTH (Initiated Call XX) - Phone No. ( )

   of (Company/Organization) _____

3. Topic of Conversation: M E P N A / N7370

4. Highlights of Conversation:

OPERATOR NAME IS BEING CHANGED FROM M E P N A (MOBIL EXPLORATION AND PRODUCING NORTH AMERICA INC) TO MOBIL EXPLOR & PROD. THE NAME CHANGE IS BEING DONE AT THIS TIME TO ALLEVIATE CONFUSION, BOTH IN HOUSE AND AMONGST THE GENERAL PUBLIC.

*SUPERIOR OIL COMPANY MERGED INTO M E P N A 4-24-86 (SEE ATTACHED).

Mobil Oil Corporation

P.O. BOX 5444
DENVER, COLORADO 80217-5444

May 14, 1986

RECEIVED
MAY 16 1986
DIVISION OF
OIL, GAS & MINING

Utah Board of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attn: R. J. Firth
Associate Director

SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:
On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with Mobil Exploration and Producing North America Inc. (MEPNA), which is also a wholly owned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,

R. D. Baker
Environmental Regulatory Manager

CNE/rd
CNE8661

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. GLH
2. CDW✓
3. FILE

Change of Operator (Well Sold) — Designation of Agent

X Operator Name Change — Merger

The operator of the well(s) listed below has changed, effective: **06-01-2001**

FROM: (Old Operator):		**TO:** (New Operator):
MOBIL EXPLORATION & PRODUCTION		EXXONMOBIL OIL CORPORATION
Address: P O BOX DRAWER "G"		Address: U S WEST P O BOX 4358
CORTEZ, CO 81321		HOUSTON, TX 77210-4358
Phone: 1-(970)-564-5212		Phone: 1-(713)-431-1010
Account No. N7370		Account No. N1855

CA No. **Unit:** **RATHERFORD**

WELL(S)

NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
RATHERFORD UNIT 29-31	29-41S-24E	43-037-30914	6280	INDIAN	OW	P
29-33	29-41S-24E	43-037-30932	6280	INDIAN	OW	P
RATHERFORD UNIT 29-42	29-41S-24E	43-037-30937	6280	INDIAN	OW	P
RATHERFORD UNIT 29-11	29-41S-24E	43-037-31053	6280	INDIAN	OW	S
RATHERFORD UNIT 29-22	29-41S-24E	43-037-31082	6280	INDIAN	OW	P
30-32	30-41S-24E	43-037-15342	6280	INDIAN	OW	P

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/29/2001
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/29/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database on:** 04/09/2002
4. Is the new operator registered in the State of Utah: YES Business Number: 579865-0143
5. If **NO**, the operator was contacted contacted on: N/A

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BIA-06/01/01

7. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 06/01/2001

8. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A

9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 04/15/2002
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 04/15/2002
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: N/A

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: N/A

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 80273197

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A

2. The **FORMER** operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

ExxonMobil Production Comp
U.S. West
P.O. Box 4358
Houston, Texas 77210-4358

June 27, 2001

ExxonMobil
Production

Mr. Jim Thompson
State of Utah, Division of Oil, Gas and Mining
1549 West North Temple
Suite 1210
Salt Lake City, UT 84114-5801

Change of Name – Mobil Oil Corporation to
ExxonMobil Oil Corporation

Dear Mr. Thompson

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

A copy of the Certification, Bond Rider and a list of wells are attached.

If you have any questions please feel free to call Joel Talavera at 713-431-1010

Very truly yours,

Charlotte H. Harper

Charlotte H. Harper
Permitting Supervisor

ExxonMobil Production Company
a division of Exxon Mobil Corporation,
acting for ExxonMobil Oil Corporation

United States Department of the Interior

BUREAU OF INDIAN AFFAIRS
~~Navajo Area Office~~
NAVAJO REGION
P.O. Box 1060
Gallup, New Mexico 87305-1060

IN REPLY REFER TO:

RRES/543

AUG 30 2001

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Charlotte H. Harper, Permitting Supervisor
Exxon Mobil Production Company
U. S. West
P. O. Box 4358
Houston, TX 77210-4358

Dear Ms. Harper:

This is to acknowledge receipt of your company's name change from Mobil Oil Corporation to ExxonMobil Oil Corporation effective June 1, 2001. The receipt of documents includes the Name Change Certification, current listing of Officers and Directors, Listing of Leases, Financial Statement, filing fees of $75.00 and a copy of the Rider for Bond Number 8027 31 97. There are no other changes.

Please note that we will provide copies of these documents to other concerned parties. If you need further assistance, you may contact Ms. Bertha Spencer, Realty Specialist, at (928) 871-5938.

Sincerely,

PERMIT DENETSONE

Regional Realty Officer

cc: BLM, Farmington Field Office w/enclosures
Navajo Nation Minerals Office, Attn: Mr. Akhtar Zaman, Director/w enclosures

MINERAL RESOURCES
ADM
NATV AM MIN COORD
SOLID MIN TEAM
PETRO MGMT TEAM
O & G INSPECT TEAM
ALL TEAM LEADERS
LAND RESOURCES
ENVIRONMENT
FILES

ExxonMobil Production Company
U.S. West
P.O. Box 4358
Houston, Texas 77210-4358

BB 7/12/2001

GN
543
File

June 27, 2001

ExxonMobil
Production

Certified Mail
Return Receipt Requested

RECEIVED
#477
JUL 9 - 2001
Navajo Region Office
RES - Minerals Section

Ms. Genni Denetsone
United States Department of the Interior
Bureau of Indian Affairs, Navajo Region
Real Estate Services
P. O. Box 1060
Gallup, New Mexico 87305-1060
Mail Code 543

Change of Name –
Mobil Oil Corporation to
ExxonMobil Oil Corporation

Dear Ms. Denetsone:

Effective June 1, 2001, Mobil Oil Corporation (MOC) changed its name to ExxonMobil Oil Corporation (EMOC). This was a name change only; EMOC is the same corporation as Mobil Oil Corporation, but with a new name. No facility or other asset was transferred from one corporation to another by virtue of the name change. Specifically, EMOC will remain the owner and operator of its existing exploration and production oil and gas properties and facilities, as well as relevant permits.

There is no change to the name of Exxon Mobil Corporation, the ultimate shareholder of EMOC.

Please note the change of name of MOC to ExxonMobil Oil Corporation in your records pertaining to any MOC permits.

The Federal Identification Number for MOC (13-5401570) will remain the same for EMOC.

Attached is the Name Change Certification, Current listing of Officers and Directors, Filing Fee of $75/-, Listing of Leases, Financial Statement and a copy of the Rider for Bond number 8027 31 97. The original Bond Rider has been sent to Ms. Barbar Davis at your Washington Office.

If you have any questions , please contact Alex Correa at (713) 431-1012.

Very truly yours,

Charlotte H. Harper

Charlotte H. Harper
Permitting Supervisor

Attachments

RECEIVED
JUL 0 5 2001
NAVAJO REGION OFFICE
BRANCH OF REAL ESTATE SERVICES

ExxonMobil Production Company
a division of Exxon Mobil Corporation,
acting for ExxonMobil Oil Corporation

NOTE: Check forwarded to Ella Isosi

Bureau of Indian Affairs
Navajo Region Office
Attn: RRES - Mineral and Mining Section
P.O. Box 1060
Gallup, New Mexico 87305-1060

Gentlemen:

The current listing of officers and director of ExxonMobil Oil Corporation (Name of Corporation), of New York (State) is as follows:

OFFICERS

President	F.A. Risch	Address	5959 Las Colinas Blvd. Irving, TX 75039
Vice President	K.T. Koonce	Address	800 Bell Street Houston, TX 77002
Secretary	F.L. Reid	Address	5959 Las Colinas Blvd. Irving, TX 75039
Treasure	B.A. Maher	Address	5959 Las Colinas Blvd. Irving, TX 75039

DIRECTORS

Name	D.D. Humphreys	Address	5959 Las Colinas Blvd. Irving, TX 75039
Name	P.A. Hanson	Address	5959 Las Colinas Blvd. Irving, TX 75039
Name	T.P. Townsend	Address	5959 Las Colinas Blvd. Irving, TX 75039
Name	B.A. Maher	Address	5959 Las Colinas Blvd. Irving, TX 75039
Name	F.A. Risch	Address	5959 Las Colinas Blvd. Irving, TX 75039

Sincerely,

Alex Correa

This is to certify that the above information pertaining to ExxonMobil Oil Corporation (Corporation) is trust and correct as evidenced by the records and accounts covering business for the State of Utah and in the custody of Corporation Service Company (Agent), Phone: 1 (800)927-9800, whose business address is One Utah Center, 201 South Main Street, Salt Lake City, Utah 84111-2218

(CORPORATE SEAL)

Signature

AGENT AND ATTORNEY IN FACT

Title

SAL

CERTIFICATION

I, the undersigned Assistant Secretary of ExxonMobil Oil Corporation. (formerly Mobil Oil Corporation), a corporation organized and existing under the laws of the State of New York, United States of America, DO HEREBY CERTIFY, That, the following is a true and exact copy of the resolutions adopted by the Board of Directors on May 22, 2001:

CHANGE OF COMPANY NAME

WHEREAS, the undersigned Directors of the Corporation deem it to be in the best interest of the Corporation to amend the Certificate of Incorporation of the Corporation to change the name and principal office of the Corporation:

NOW THEREFORE BE IT RESOLVED, That Article 1st relating to the corporate name is hereby amended to read as follows:

"1st The corporate name of said Company shall be,

ExxonMobil Oil Corporation",

FURTHER RESOLVED, That the amendment of the Corporation's Certificate of Incorporation referred to in the preceding resolutions be submitted to the sole shareholder of the Corporation entitled to vote thereon for its approval and, if such shareholder gives its written consent, pursuant to Section 803 of the Business Corporation Law of the State of New York, approving such amendment, the proper officers of the Corporation be, and they hereby are, authorized to execute in the name of the Corporation the Certificate of Amendment of Certificate of Incorporation, in the form attached hereto;

FURTHER RESOLVED, That the proper officers of the Corporation be and they hereby are authorized and directed to deliver, file and record in its behalf, the Certificate of Amendment of Certificate of Incorporation, and to take such action as may be deemed necessary or advisable to confirm and make effective in all respects the change of this Company's name to EXXONMOBIL OIL CORPORATION.

WITNESS, my hand and the seal of the Corporation at Irving, Texas, this 8th day of June, 2001.

D. A. Millican
Assistant Secretary

COUNTY OF DALLAS)
STATE OF TEXAS)
UNITED STATES OF AMERICA)
Sworn to and subscribed before me at Irving, Texas, U. S. A. on this the 8th day of June, 2001.

Janice M. Phillips
Notary Public

LISTING OF LEASES OF MOBIL OIL CORPORATION

	Lease Number
1)	14-20-0603-6504
2)	14-20-0603-6505
3)	14-20-0603-6506
4)	14-20-0603-6508
5)	14-20-0603-6509
6)	14-20-0603-6510
7)	14-20-0603-7171
8)	14-20-0603-7172A
9)	14-20-600-3530
10)	14-20-603-359
11)	14-20-603-368
12)	14-20-603-370
13)	14-20-603-370A
14)	14-20-603-372
15)	14-20-603-372A
16)	14-20-603-4495
17)	14-20-603-5447
18)	14-20-603-5448
19)	14-20-603-5449
20)	14-20-603-5450
21)	14-20-603-5451

6/1/01

CHUBB GROUP OF INSURANCE COMPANIES

[illegible] South, Suite 1900, Houston, Texas 77027-3301
[illegible] (713) 297-4600 • Facsimile: (713) 297-4750

New Bond

FEDERAL INSURANCE COMPANY RIDER
to be attached to and form a part of

BOND NO 8027 31 97
wherein
Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc. is named as Principal and

FEDERAL INSURANCE COMPANY AS SURETY,

in favor of **United States of America, Department of the Interior Bureau of Indian Affairs**

in the amount of **$150,000.00**
bond date: 11/01/65

IT IS HEREBY UNDERSTOOD AND AGREED THAT effective **June 1, 2001** the name of the Principal is changed

FROM: **Mobil Oil Corporation and Mobil Exploration and Producing U.S., Inc.**

TO : **ExxonMobil Oil Corporation**

All other terms and conditions of this Bond are unchanged.

Signed, sealed and dated this 12th of June, 2001.

ExxonMobil Oil Corporation

By : _____

FEDERAL INSURANCE COMPANY

By: Mary Pierson
Mary Pierson, Attorney-in-fact

Chubb Surety	POWER OF ATTORNEY	Federal Insurance Company Vigilant Insurance Company Pacific Indemnity Company	Attn.: Surety Department 15 Mountain View Road Warren, NJ 07059

Know All by These Presents, That FEDERAL INSURANCE COMPANY, an Indiana corporation, VIGILANT INSURANCE COMPANY, a New York corporation, and PACIFIC INDEMNITY COMPANY, a Wisconsin corporation, do each hereby constitute and appoint R.F. Bobo, Mary Pierson, Philana Berros, and Jody E. Specht of Houston, Texas----------

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY have each executed and attested these presents and affixed their corporate seals on this 10th day of May, 2001.

Kenneth C. Wendel, Assistant Secretary

Frank E. Robertson, Vice President

STATE OF NEW JERSEY }
County of Somerset } ss.

On this 10th day of May, 2001, before me, a Notary Public of New Jersey, personally came Kenneth C. Wendel, to me known to be Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY, the companies which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel being by me duly sworn, did depose and say that he is Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with Frank E. Robertson, and knows him to be Vice President of said Companies; and that the signature of Frank E. Robertson, subscribed to said Power of Attorney is in the genuine handwriting of Frank E. Robertson, and was thereto subscribed by authority of said Companies and in deponent's presence.

Karen A. Price

Notarial Seal
KAREN A. PRICE NOTARY PUBLIC NEW JERSEY

Notary Public State of New Jersey
No. 2231647
Commission Expires Oct. 28, 2004

Karen A. Price
Notary Public

CERTIFICATION

Extract from the By-Laws of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, Kenneth C. Wendel, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY (the "Companies") do hereby certify that

(i) the foregoing extract of the By-Laws of the Companies is true and correct,
(ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U. S. Treasury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U. S. Virgin Islands, and Federal is licensed in American Samoa, Guam, and each of the Provinces of Canada except Prince Edward Island; and
(iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this 12th day of June, 2001.

FEDERAL INSURANCE COMPANY INDIANA
PACIFIC INDEMNITY COMPANY INCORPORATED JAN. 16, 1925 WISCONSIN
VIGILANT INSURANCE COMPANY NEW YORK

Kenneth C. Wendel, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY
Telephone (908) 903-3485 Fax (908) 903-3656 e-mail: surety@chubb.com

15-10-0225 (Ed. 4-99) CONSENT

F010601000187

CERTIFICATE OF AMENDMENT

OF

CERTIFICATE OF INCORPORATION

OF

MOBIL OIL CORPORATION

CSC 45

(Under Section 805 of the Business Corporation Law)

Pursuant to the provisions of Section 805 of the Business Corporation Law, the undersigned President and Secretary, respectively, of Mobil Oil Corporation hereby certify:

FIRST: That the name of the corporation is MOBIL OIL CORPORATION and that said corporation was incorporated under the name of Standard Oil Company of New York.

SECOND: That the Certificate of Incorporation of the corporation was filed by the Department of State, Albany, New York, on the 10th day of August, 1882.

THIRD: That the amendments to the Certificate of Incorporation effected by this Certificate are as follows:

(a) Article 1st of the Certificate of Incorporation, relating to the corporate name, is hereby amended to read as follows:

"1st The corporate name of said Company shall be,

ExxonMobil Oil Corporation",

(b) Article 7th of the Certificate of Incorporation, relating to the office of the corporation is hereby amended to read as follows:

The office of the corporation within the State of New York is to be located in the County of Albany. The Company shall have offices at such other places as the Board of Directors may from time to time determine.

FOURTH: That the amendments to the Certificate of Incorporation were authorized by the Board of Directors followed by the holder of all outstanding shares entitled to vote on amendments to the Certificate of Incorporation by written consent of the sole shareholder dated May 22, 2001.

IN WITNESS WHEREOF, this Certificate has been signed this 22nd Day of May, 2001.

F. A. Risch, President

STATE OF TEXAS)
COUNTY OF DALLAS)

F. L. REID, being duly sworn, deposes and says that he is the Secretary of MOBIL OIL CORPORATION, the corporation mentioned and described in the foregoing instrument; that he has read and signed the same and that the statements contained therein are true.

F. L. REID, Secretary

SUBSCRIBED AND SWORN TO before me, the undersigned authority, on this the 22nd day of May, 2001.

[SEAL]

NOTARY PUBLIC, STATE OF TEXAS

JANICE M. PHILLIPS
MY COMMISSION EXPIRES
May 16, 2002

CSC 5184334741 06/01 '01 09:01 NO.411 02/02
CSC 06/01 '01 09:06 NO.153 04/04

F010601000187

CSC 45

CERTIFICATE OF AMENDMENT

OF

MOBIL OIL CORPORATION

Under Section 805 of the Business Corporation Law

SRC

100 cc

STATE OF NEW YORK
DEPARTMENT OF STATE
FILED JUN 01 2001
TAX $
BY: SRC

Filed by: EXXONMOBIL CORPORATION
(Name)

5959 Las Colinas Blvd.
(Mailing address)

Irving, TX 75039-2298
(City, State and Zip code)

NY Albany

Cust Ref # 165578MPJ

RECEIVED
JUL 05 2001
DIVISION OF REAL ESTATE SERVICES

010601000195

State of New York }
Department of State } *ss:*

I hereby certify that the annexed copy has been compared with the original document in the custody of the Secretary of State and that the same is a true copy of said original.

Witness my hand and seal of the Department of State on JUN 01 2001

STATE OF NEW YORK
DEPARTMENT OF STATE
EXCELSIOR

Special Deputy Secretary of State

DOS-1266 (7/00)

Form 3160-5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160 - 3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well: ☐ Oil Well ☐ Gas Well ☑ Other
2. Name of Operator: **Exxon Mobil Oil Corporation**
3a. Address: **P.O. Box 4358, Houston, TX 77210-4358**
3b. Phone No. *(include area code)*: **281-654-1936**
4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*: **NWSE, 1860' FSL & 1820' FEL, Sec 29, T41S, R24E**
5. Lease Serial No.: **1420603407**
6. If Indian, Allottee or Tribe Name: **Ship Rock**
7. If Unit or CA/Agreement, Name and/or No.: **UTU68931A**
8. Well Name and No.: **Ratherford 29-33**
9. API Well No.: **43-037-30932-00-S1**
10. Field and Pool, or Exploratory Area: **Aneth**
11. County or Parish, State: **San Juan County, UT**

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☑ Production (Start/Resume)	☐ Water Shut-Off
☑ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

5/25/05 MIRU WSU Key Rig # 38, Bled well down, RU hoses from wellhead to pit and pump. Pressure tested the tubing to 500 psi and held good for 15 min. Bled well down POOH with polish rod and LD, Unseated the pump, POOH with 85 - 7/8" and 141 3/4" rods and stood them in the derrick, LD Pump.

5/26/05 Bled well down, Pumped some kill fluid down the tubing. TIH with 10 stands of 3/4" rod from the derrick, TOOH and LD 10 joints of 3/4" rods, Pumped 30 bbls of produce down the tubing for flush. PU 16' GA, Pump, Stabilizers, and 141 joints of 3/4" and 85 7/8" couldn't seat the pump, due to Gas Anchor being too long, TOOH with all the rods and stood back in the derrick and LD pump.

5/27/05 Bled well down, PU 1' GA, Pump, Stabilizers, TIH with 10 new rods and 131 old rods from the derrick, and 85 old 7/8" rods. Tagged, seated, and space out pump. Hang on well, loaded the tubing and psi test to 500 psi and it held good., RD hoses from the wellhead, pit and pump. RDWSU. FINAL REPORT.

Returned to production 8-01-05. Well test 8-01-05: 70 bbls/d Oil, 64 bbls/d SW, 3 kcf/d Gas.
Well test 10-01-05: 2 bbls/d Oil, 4 bbls/d SW, 3 kcf/d Gas.

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*: **Tiffany Stebbins** Title **Staff Office Assistant**

Signature: Tiffany Stebbins Date: **11/11/2005**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date _____

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

RECEIVED
NOV 18 2005
DIV. OF OIL, GAS & MINING

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

X Change of Operator (Well Sold) Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **6/1/2006**

FROM: (Old Operator):	**TO:** (New Operator):
N1855-ExxonMobil Oil Corporation	N2700-Resolute Natural Resources Company
PO Box 4358	1675 Broadway, Suite 1950
Houston, TX 77210-4358	Denver, CO 80202
Phone: 1 (281) 654-1936	Phone: 1 (303) 534-4600

CA No. **Unit:** **RATHERFORD**

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/21/2006
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/24/2006
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 6/7/2006
4. Is the new operator registered in the State of Utah: YES Business Number: 5733505-0143
5. If **NO**, the operator was contacted contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: requested

6b. Inspections of LA PA state/fee well sites complete on: n/a

6c. Reports current for Production/Disposition & Sundries on: ok

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM n/a BIA not yet
8. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
9. **Federal and Indian Communization Agreements ("CA"):** The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/12/2006

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 6/22/2006
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 6/22/2006
3. Bond information entered in RBDMS on: n/a
4. Fee/State wells attached to bond in RBDMS on: n/a
5. Injection Projects to new operator in RBDMS on: 6/22/2006
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: n/a
2. Indian well(s) covered by Bond Number: PA002769
3. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a

a. The **FORMER** operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:	See attached list
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	Navajo Tribe
7. UNIT or CA AGREEMENT NAME:	Ratherford Unit
8. WELL NAME and NUMBER:	See attached list
9. API NUMBER:	Attached
10. FIELD AND POOL, OR WILDCAT:	Greater Aneth

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER Unit Agreement

2. NAME OF OPERATOR: Resolute Natural Resources Company N2700

3. ADDRESS OF OPERATOR: 1675 Broadway, Suite 1950 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (303) 534-4600

4. LOCATION OF WELL
FOOTAGES AT SURFACE: See attached list COUNTY: San Juan
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: _____	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
_____	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER: _____
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 1, 2006 Exxon Mobil Oil Corporation resigns as operator of the Ratherford Unit. Also effective June 1, 2006 Resolute Natural Resources Company is designated as successor operator of the Ratherford Unit.

A list of affected producing and water source wells is attached. A separate of affected injection wells is being submitted with UIC Form 5, Transfer of Authority to Inject.

As of the effective date, bond coverage for the affected wells will transfer to BIA Bond # PA002769.

NAME (PLEASE PRINT) Dwight E Mallory TITLE Regulatory Coordinator

SIGNATURE Dwight E Mallory DATE 4/20/2006

(This space for State use only)

APPROVED 6/27/06
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

RECEIVED
APR 24 2006
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ship Rock

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: UTU68931A

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: Ratherford

2. NAME OF OPERATOR: ExxonMobil Oil Corporation N1855

9. API NUMBER: attached

3. ADDRESS OF OPERATOR: P.O. Box 4358 CITY Houston STATE TX ZIP 77210-4358

PHONE NUMBER: (281) 654-1936

10. FIELD AND POOL, OR WILDCAT: Aneth

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY: San Juan

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 6/1/2006	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
Date of work completion:	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ExxonMobil Oil Corporation is transferring operatorship of Greater Aneth field, Ratherford lease to Resolute Natural Resources Company. All change of operator notices should be made effective as of 7:00 AM MST on June 1, 2006.

Attached please find a listing of producers and water source wells included in the transfer.

NAME (PLEASE PRINT) Laurie Kilbride TITLE Permitting Supervisor

SIGNATURE Laurie B. Kilbride DATE 4/19/2006

(This space for State use only)

APPROVED 6/27/06
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED
APR 21 2006
DIV. OF OIL, GAS & MINING

(5/2000)

Ratherford Unit - Producer Well List

minus P&A's

Lease	Number	API #	Status	Lease #	Location					
					Sec	T	R	QTR/QTR	NSFoot	EWFoot
Ratherford	01-14	430373116200S1	Producing	1420603246A	1	41S	23E	SWSW	0660FSL	0660FWL
Ratherford	01-34	430371638501S1	SI	1420603246A	1	41S	23E	SWSE	1133FSL	1980FEL
Ratherford	11-41	430373154400S1	Producing	1420603246A	11	41S	23E	NENE	0860FNL	0350FEL
Ratherford	11-43	430373162201S1	Producing	1420603246A	11	41S	23E	NESE	1980FSL	0660FEL
Ratherford	12-12	430373119000S1	Producing	1420603246A	12	41S	23E	SWNW	1850FNL	0660FWL
Ratherford	12-14	430371584400S1	SI	1420603246A	12	41S	23E	SWSW	0660FSL	4622FEL
Ratherford	12-21	430373120100S1	Producing	1420603246A	12	41S	23E	NENW	0660FNL	1980FWL
Ratherford	12-23	430371584601S1	Producing	1420603246A	12	41S	23E	NESW	1958FSL	3300FEL
Ratherford	12-32	430373120300S1	Producing	1420603246A	12	41S	23E	SWNE	1820FNL	1820FEL
Ratherford	12-34	430373112600S1	Producing	1420603246A	12	41S	23E	SWSE	0675FSL	1905FEL
Ratherford	12-43	430373120200S1	SI	1420603246A	12	41S	23E	NESE	2100FSL	0660FEL
Ratherford	13-12	430373112701S1	Producing	1420603247A	13	41S	23E	SWNW	1705FNL	0640FWL
Ratherford	13-14	430373158900S1	Producing	1420603247A	13	41S	23E	SWSW	0660FSL	0660FWL
Ratherford	13-21	430373112801S1	SI	1420603247A	13	41S	23E	NENW	0660FNL	1920FWL
Ratherford	13-23	430373112900S1	Producing	1420603247A	13	41S	23E	NESW	1980FSL	1930FWL
Ratherford	13-34	430373113001S1	Producing	1420603247A	13	41S	23E	SWSE	0660FSL	1980FEL
Ratherford	13-41	430371585601S1	Producing	1420603247A	13	41S	23E	NENE	660FNL	660FEL
Ratherford	13-43	430373113100S1	Producing	1420603247A	13	41S	23E	NESE	1700FSL	0960FEL
Ratherford	14-32	430371585801S1	Producing	1420603247A	14	41S	23E	SWNE	2130FNL	1830FEL
Ratherford	14-41	430373162300S1	Producing	1420603247A	14	41S	23E	NENE	0521FNL	0810FEL
Ratherford	24-32	430373159300S1	Producing	1420603247A	24	41S	23E	SWNE	2121FNL	1846FEL
Ratherford	24-41	430373113200S1	Producing	1420603247A	24	41S	23E	NENE	0660FNL	0710FEL
Ratherford	17-11	430373116900S1	Producing	1420603353	17	41S	24E	NWNW	1075FNL	0800FWL
Ratherford	17-13	430373113301S1	Producing	1420603353	17	41S	24E	NWSW	2100FSL	0660FWL
Ratherford	17-22	430373117001S1	Producing	1420603353	17	41S	24E	SENW	1882FNL	1910FWL
Ratherford	17-24	430373104400S1	Producing	1420603353	17	41S	24E	SESW	0720FSL	1980FWL
Ratherford	17-31	430373117800S1	Producing	1420603353	17	41S	24E	NWNE	0500FNL	1980FEL
Ratherford	17-33	430373113400S1	Producing	1420603353	17	41S	24E	NWSE	1980FSL	1845FEL
Ratherford	17-42	430373117700S1	Producing	1420603353	17	41S	24E	SENE	1980FNL	0660FEL
Ratherford	17-44	430371573201S1	Producing	1420603353	17	41S	24E	SESE	0660FSL	0660FEL
Ratherford	18-11	430371573300S1	SI	1420603353	18	41S	24E	NWNW	0720FNL	0730FWL
Ratherford	18-13	430371573401S1	Producing	1420603353	18	41S	24E	NWSW	1980FSL	0500FWL
Ratherford	18-22	430373123600S1	Producing	1420603353	18	41S	24E	SENW	2200FNL	2210FWL
Ratherford	18-24	430373107900S1	Producing	1420603353	18	41S	24E	SESW	0760FSL	1980FWL
Ratherford	18-31	430373118101S1	Producing	1420603353	18	41S	24E	NWNE	0795FNL	2090FEL
Ratherford	18-33	430373113501S1	Producing	1420603353	18	41S	24E	NWSE	1870FSL	1980FEL
Ratherford	18-42	430373118200S1	Producing	1420603353	18	41S	24E	SENE	2120FNL	0745FEL
Ratherford	18-44	430373104500S1	SI	1420603353	18	41S	24E	SESE	0660FSL	0660FEL
Ratherford	19-11	430373108000S1	Producing	1420603353	19	41S	24E	NWNW	0660FNL	0660FWL
Ratherford	19-13	430373171900S1	Producing	1420603353	19	41S	24E	NWSW	1980FSL	0660FWL
Ratherford	19-22	430373104601S1	Producing	1420603353	19	41S	24E	SENW	1840FNL	1980FWL
Ratherford	19-24	430373175401S1	Producing	1420603353	19	41S	24E	SESW	0600FSL	1980FWL
Ratherford	19-31	430373104701S1	Producing	1420603353	19	41S	24E	NWNE	510FNL	1980FEL
Ratherford	19-33	430373104800S1	Producing	1420603353	19	41S	24E	NWSE	1980FSL	1980FEL
Ratherford	19-42	430373091600S1	Producing	1420603353	19	41S	24E	SENE	1880FNL	0660FEL
Ratherford	19-44	430373108100S1	Producing	1420603353	19	41S	24E	SESE	0660FSL	0660FEL
Ratherford	19-97	430373159600S1	Producing	1420603353	19	41S	24E	SENE	2562FNL	0030FEL
Ratherford	20-11	430373104900S1	Producing	1420603353	20	41S	24E	NWNW	0500FNL	0660FWL
Ratherford	20-13	430373091700S1	Producing	1420603353	20	41S	24E	NWSW	2140FSL	0500FWL
Ratherford	20-22	430373093000S1	Producing	1420603353	20	41S	24E	SENW	2020FNL	2090FWL
Ratherford	20-24	430373091800S1	Producing	1420603353	20	41S	24E	SESW	0820FSL	1820FWL

Ratherford Unit - Producer Well List

minus P&A's

Lease	Number	API #	Status	Lease #	Location					
					Sec	T	R	QTR/QTR	NSFoot	EWFoot
Ratherford	20-31	430373105001S1	Producing	1420603353	20	41S	24E	NWNE	0660FNL	1880FEL
Ratherford	20-33	430373093100S1	Producing	1420603353	20	41S	24E	NWSE	1910FSL	2140FEL
Ratherford	20-42	430373105100S1	Producing	1420603353	20	41S	24E	SENE	1980FNL	0660FEL
Ratherford	20-44	430373091501S1	Producing	1420603353	20	41S	24E	SESE	0620FSL	0760FEL
Ratherford	20-66	430373159201S1	Producing	1420603353	20	41S	24E	SWNW	1369FNL	1221FWL
Ratherford	20-68	430373159100S1	Producing	1420603353	20	41S	24E	NWSW	1615FSL	1276FWL
Ratherford	15-12	430371571501S1	Producing	1420603355	15	41S	24E	SWNW	1820FNL	0500FWL
Ratherford	15-22	430373044900S1	SI	1420603355	15	41S	24E	SENW	1980FNL	2050FWL
Ratherford	15-32	430371571700S1	Producing	1420603355	15	41S	24E	SWNE	1980FNL	1980FEL
Ratherford	15-33	430371571800S1	Producing	1420603355	15	41S	24E	NWSE	1650FSL	1980FEL
Ratherford	15-41	430371571900S1	TA	1420603355	15	41S	24E	NENE	0660FNL	0660FEL
Ratherford	15-42	430373044800S1	Producing	1420603355	15	41S	24E	SENE	2020FNL	0820FEL
Ratherford	16-13	430373116801S1	Producing	1420603355	16	41S	24E	NWSW	1980FSL	660FWL
Ratherford	16-32	430371572300S1	Producing	1420603355	16	41S	24E	SWNE	1980FNL	1980FEL
Ratherford	16-41	430371572500S1	Producing	1420603355	16	41S	24E	NENE	0660FNL	0660FEL
Ratherford	16-77	430373176800S1	Producing	1420603355	16	41S	24E	NESW	2587FSL	2410FWL
Ratherford	21-23	430371375400S1	Producing	1420603355	21	41S	24E	NESW	1740FSL	1740FWL
Ratherford	21-24	430373172001S1	SI	1420603355	21	41S	24E	SESW	487FSL	2064FWL
Ratherford	21-32	430371575500S1	SI	1420603355	21	41S	24E	SWNE	1880FNL	1980FEL
Ratherford	21-77	430373175801S1	SI	1420603355	21	41S	24E	NWSE	2511FSL	2446FEL
Ratherford	07-11	430373116300S1	Producing	1420603368	7	41S	24E	NWNW	0660FNL	0710FWL
Ratherford	07-13	430373116400S1	Producing	1420603368	7	41S	24E	NWSW	2110FSL	0740FWL
Ratherford	07-22	430373116500S1	Producing	1420603368	7	41S	24E	SENW	1980FNL	1980FWL
Ratherford	07-24	430373116600S1	Producing	1420603368	7	41S	24E	SESW	0880FSL	2414FWL
Ratherford	07-44	430373118900S1	SI	1420603368	7	41S	24E	SESE	0737FSL	0555FEL
Ratherford	08-12	430371599100S1	Producing	1420603368	8	41S	24E	SWNW	1909FNL	0520FWL
Ratherford	08-21	430371599300S1	Producing	1420603368	8	41S	24E	NENW	0616FNL	1911FWL
Ratherford	08-23	430371599400S1	Producing	1420603368	8	41S	24E	NESW	1920FSL	2055FWL
Ratherford	08-32	430371599500S1	Producing	1420603368	8	41S	24E	SWNE	1980FNL	1980FEL
Ratherford	08-34	430371599600S1	Producing	1420603368	8	41S	24E	SWSE	0660FSL	1980FEL
Ratherford	04-34	430371616400S1	Producing	14206034035	4	41S	24E	SWSE	0660FSL	1980FEL
Ratherford	11-14	430371616700S1	Producing	14206034037	11	41S	24E	SWSW	0660FSL	0660FWL
Ratherford	09-34	430371571100S1	SI	14206034043	9	41S	24E	SWSE	0660FSL	1980FEL
Ratherford	10-12	430371571200S1	Producing	14206034043	10	41S	24E	SWNW	1980FNL	0660FWL
Ratherford	10-14	430371571300S1	Producing	14206034043	10	41S	24E	SWSW	0510FSL	0710FWL
Ratherford	10-32	430371571400S1	TA	14206034043	10	41S	24E	SWNE	2080FNL	1910FEL
Ratherford	10-44	430373045100S1	TA	14206034043	10	41S	24E	SESE	0820FSL	0510FEL
Ratherford	29-11	430373105300S1	Producing	1420603407	29	41S	24E	NWNW	0770FNL	0585FWL
Ratherford	29-22	430373108200S1	Producing	1420603407	29	41S	24E	SENW	2130FNL	1370FWL
Ratherford	29-31	430373091401S1	Producing	1420603407	29	41S	24E	NWNE	0700FNL	2140FEL
Ratherford	29-33	430373093200S1	SI	1420603407	29	41S	24E	NWSE	1860FSL	1820FEL
Ratherford	29-34	430371534000S1	SI	1420603407	29	41S	24E	SWSE	0817FSL	2096FEL
Ratherford	29-42	430373093700S1	SI	1420603407	29	41S	24E	SENE	1850FNL	0660FEL
Ratherford	30-32	430371534200S1	Producing	1420603407	30	41S	24E	SWNE	1975FNL	2010FEL
Ratherford	28-11	430373044600S1	Producing	1420603409	28	41S	24E	NWNW	0520FNL	0620FWL

Ratherford Unit - Producer Well List

minus P&A's

Lease	Number	API #	Status	Lease #	Location					
					Sec	T	R	QTR/QTR	NSFoot	EWFoot
Ratherford	09-12	430371512600S1	Producing	14206035045	9	41S	24E	SWNW	1865FNL	0780FWL
Ratherford	09-14	430371512700S1	Producing	14206035046	9	41S	24E	SWSW	0695FSL	0695FWL
Ratherford	04-14	430371616300S1	Producing	14206035446	4	41S	24E	SWSW	0500FSL	0660FWL
Ratherford	03-12	430371562000S1	Producing	14206036506	3	41S	24E	SWNW	2140FNL	0660FWL

Water Source Wells (Feb 2006)

RU	S1	4303700001	Active
RU	S2	4303700002	Active
RU	S3	4303700003	Active
RU	S4	4303700004	Active
RU	S5	4303700005	Active
RU	S6	4303700006	Active
RU	S7	4303700007	Active
RU	S8	4303700008	Active
RU	S9	4303700009	Active
RU	S10	4303700010	Active
RU	S11	4303700011	Active
RU	S12	4303700012	Active
RU	S13	4303700013	Active
RU	S14	4303700014	Active
RU	S16	4303700016	Active
RU	S17	4303700017	Active

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL Oil Well	**5.LEASE DESIGNATION AND SERIAL NUMBER:** 14-20-603-407
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO
	7.UNIT or CA AGREEMENT NAME: RATHERFORD
	8. WELL NAME and NUMBER: 29-33
2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES	**9. API NUMBER:** 43037309320000
3. ADDRESS OF OPERATOR: 1675 Boradway Ste 1950 , Denver, CO, 80202 **PHONE NUMBER:** 303 534-4600 Ext	**9. FIELD and POOL or WILDCAT:** GREATER ANETH
4. LOCATION OF WELL **FOOTAGES AT SURFACE:** 1860 FSL 1820 FEL **QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: NWSE Section: 29 Township: 41.0S Range: 24.0E Meridian: S	**COUNTY:** SAN JUAN **STATE:** UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 3/19/2013	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	✓ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute proposes to drill dual horizontal later from the current wellbore in Ratherford Unit 29-33 to better drain the Desert Creek IA & IB intervals along the SW edge of the structure. The new laterals will be left open hole and will be produced commingled with perforations in the vertical wellbore. Attached is proposed drilling plan, directional plans/plots for 2 laterals, plat, water permits.

Surf
4117418 X
650660 Y
37.191066
-109.302548

BH
4118284 X
649154 Y
37.198997
-109.310761

Federal Approval of this Action is Necessary

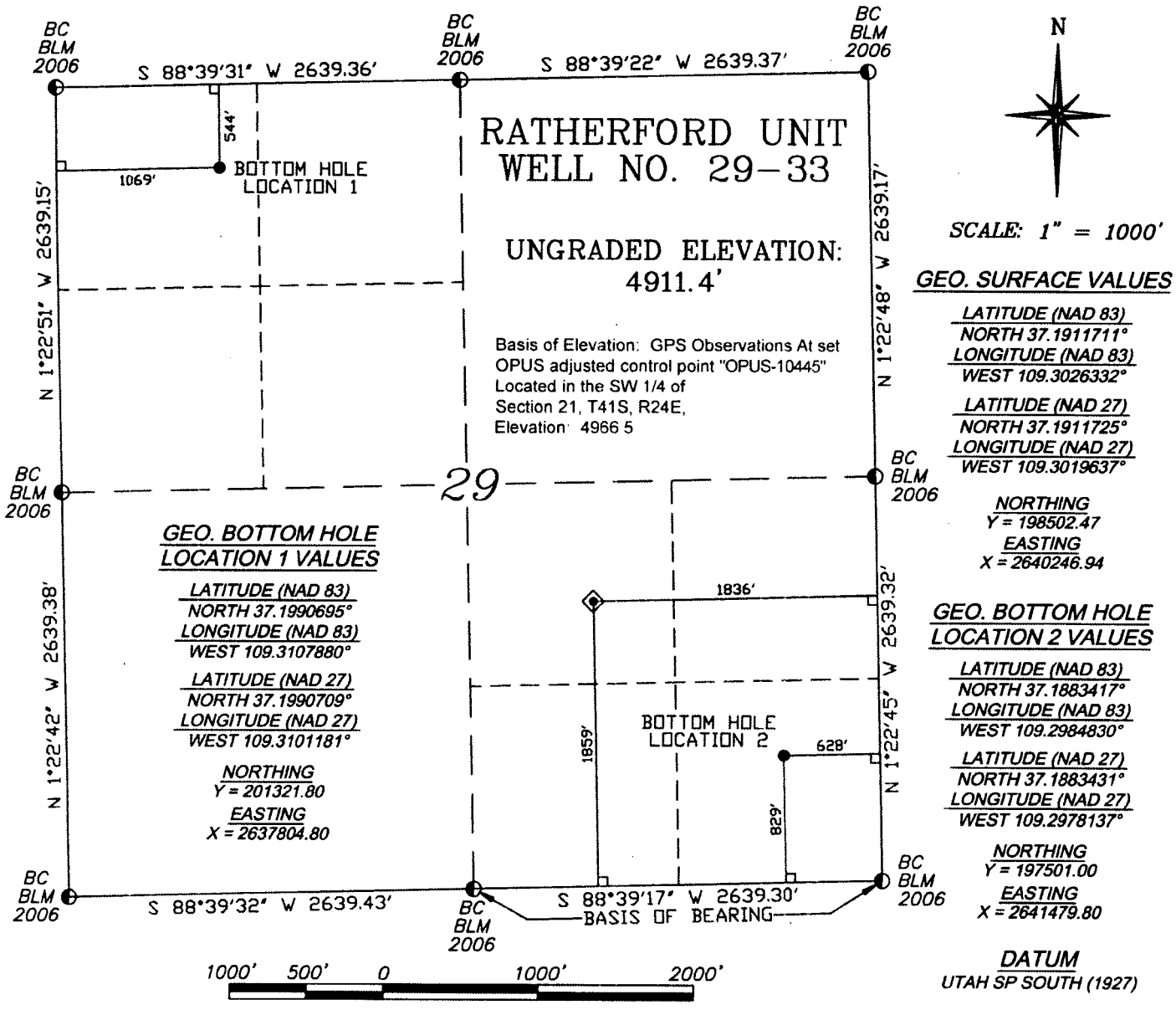
Approved by the Utah Division of Oil, Gas and Mining

Date: 03-21-13

By:

NAME (PLEASE PRINT) Sherry Glass **PHONE NUMBER** 303 573-4886	**TITLE** Sr Regulatory Technician
SIGNATURE N/A	**DATE** 3/14/2013

T. 41 S., R. 24 E., S.L.M.



SURVEYOR'S STATEMENT:

I, John A. Vukonich, of Farmington, New Mexico, hereby state: This plat was made from notes taken during an actual survey under my direct supervision on FEBRUARY 8, 2013, and it correctly shows the location of RATHERFORD UNIT WELL NO. 29-33.

PROFESSIONAL LAND SURVEYOR No. 7219139 JOHN A. VUKONICH STATE OF UTAH

UTAH PLS No. 7219139-2201 DATE: 3-12-13

LEGEND

- ◈ SURFACE WELL LOCATION
- ● BOTTOM HOLE LOCATION
- ○ CALCULATED POSITION
- ◐ FOUND MONUMENT
- ∟ DENOTES 90° TIE
- (C) CALCULATED

EXHIBIT A

UNITED FIELD SERVICES INC.

P.O. BOX 3651
FARMINGTON, N.M.
(505) 334-0408

PLAT OF PROPOSED WELL LOCATION FOR RESOLUTE NATURAL RESOURCES COMPANY

SCALE: 1" = 1000'
JOB No. 10445
DATE: 03/01/13

SURFACE: 1859' F/SL & 1836' F/EL, BOTTOM HOLE 1: 544' F/NL & 1069' F/WL, BOTTOM HOLE 2: 829' F/SL & 628' F/EL, SECTION 29, T. 41 S, R. 24 E, SLM., SAN JUAN COUNTY, UTAH

BY: H.S. DWG.#: 10445W01

ADDITIONAL SUPPORT INFORMATION
Sundry – Notice of Intent
Ratherford Unit 29-33 Producer
Drill Dual Horizontal Laterals for DC-1A, 1B Reserves

1. Formation Tops

Existing Formation Tops (MD):	
Upper Ismay:	5513'
Lower Ismay:	5606'
Gothic Shale:	5653'
Desert Creek IA	5674'
Desert Creek IB	5703'

2. Wellbore Diagrams –
   Existing Wellbore Diagram – Attachment No. 1
   Proposed Wellbore Diagram – Attachment No. 2

3. BOP Diagram and Equipment Description – Attachment No. 3

4. Directional Plan Leg#1 – Attachment No. 4, Leg#2 Attachment No. 5

5. Drilling Mud Specifications
   a. Proposed to drill laterals with N2 foamed fresh water fluid, in an underbalanced situation, or if conditions warrant,
   b. CaCl2 brine water will be used, and if this will not control formation pressure during the drilling operations,
   c. Drilling mud with a salt polymer will be used if required for control of formation pressure during the drilling operations

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Ratherford Unit 29-33H
1859' FSL & 1836' FEL
Sec 29, T41S, R24E
San Juan County, Utah
API 43-037-30932

Job Scope – Drill dual horizontal laterals from the current vertical wellbore to better drain the Desert Creek IA& IB intervals along the SW edge of the structure. The new laterals will be left open hole and will be produced commingled with perforations in the vertical wellbore.

Procedure: (Sundry Notice of Intent)

1. MIRU Well Service Unit.
2. Pull & LD rods & pump.
3. NU BOP, Pull production tubing & BHA.
4. Make cleanout trip to ~5630' with bit & scraper.
5. Run Casing Inspection and Cement Bond Logs from ~5630' to surface.
6. Set RBP for KOP at ~5455'. (Exact depth to be determined from csg inspection and CBL logs.)
7. RIH & set whipstock on RBP & orient same.
8. Mill ~7' window in 7" casing for 5455' KOP.
9. Drill the curve & 3847' x 6-1/8" lateral to the NW, Azimuth ~319 degrees.
10. RIH & set second whipstock for KOP ~11' above the first at ~5444' & orient same.
11. Mill ~7' window in 7" casing for 5444' KOP.

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12. Drill the curve & 1474' x 6-1/8" lateral to the SE, Azimuth ~139 degrees.

13. Acid stimulate both laterals & flow back the acid load volume.

14. Retrieve both whipstocks & RBP.

15. Run production tubing & BHA.

16. Run rods & insert pump.

17. ND BOPE, NU Wellhead &flow line.

18. RDMO Drilling rig.

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MESA WEST DIRECTIONAL

Resolute Natural Resources

Ratherford Unit
Ratherford Unit 29-33
29-33H

Leg #1

Plan: Leg #1 - Design #1

Standard Planning Report

31 January, 2013

RESOLUTE NATURAL RESOURCES

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MESA WEST DIRECTIONAL

Mesa West Directional

Planning Report

RESOLUTE NATURAL RESOURCES

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Site Ratherford Unit 29-33
Company:	Resolute Natural Resources	**TVD Reference:**	Est. KB @ 4927.0usft
Project:	Ratherford Unit	**MD Reference:**	Est. KB @ 4927.0usft
Site:	Ratherford Unit 29-33	**North Reference:**	Grid
Well:	29-33H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Leg #1	**Job #:**	
Design:	Leg #1 - Design #1		

Project Ratherford Unit

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah South 4303		Using geodetic scale factor

Site Ratherford Unit 29-33

Site Position:		**Northing:**	198,416.02 usft	**Latitude:**	37° 11' 27.348 N
From:	Lat/Long	**Easting:**	2,640,325.80 usft	**Longitude:**	109° 18' 6.120 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	1.35 °

Well 29-33H

Well Position	**+N/-S**	0.0 usft	**Northing:**	198,416.02 usft	**Latitude:**	37° 11' 27.348 N
	+E/-W	0.0 usft	**Easting:**	2,640,325.80 usft	**Longitude:**	109° 18' 6.120 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	4,915.0 usft

Wellbore Leg #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	01/02/2013	10.39	63.52	50,630

Design Leg #1 - Design #1

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	318.99

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,454.8	0.00	0.00	5,454.8	0.0	0.0	0.00	0.00	0.00	0.00	
5,813.0	89.56	318.99	5,684.0	171.6	-149.2	25.00	25.00	0.00	318.99	
6,963.0	89.56	318.99	5,692.8	1,039.4	-903.8	0.00	0.00	0.00	0.00	
7,007.0	90.00	318.99	5,693.0	1,072.6	-932.6	1.00	1.00	0.00	0.00	
7,743.6	90.00	318.99	5,693.0	1,628.5	-1,416.0	0.00	0.00	0.00	0.00	
7,781.5	90.32	318.99	5,692.9	1,657.1	-1,440.8	0.86	0.86	0.00	0.00	
8,642.6	90.32	318.99	5,688.0	2,306.9	-2,005.8	0.00	0.00	0.00	0.00	
8,657.4	91.31	318.99	5,687.8	2,318.1	-2,015.5	6.70	6.70	0.00	0.00	
9,432.9	91.31	318.99	5,670.0	2,903.1	-2,524.2	0.00	0.00	0.00	0.00	Toe (29-33)

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MESA WEST DIRECTIONAL

Mesa West Directional

Planning Report

RESOLUTE NATURAL RESOURCES

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Site Ratherford Unit 29-33
Company:	Resolute Natural Resources	**TVD Reference:**	Est. KB @ 4927.0usft
Project:	Ratherford Unit	**MD Reference:**	Est. KB @ 4927.0usft
Site:	Ratherford Unit 29-33	**North Reference:**	Grid
Well:	29-33H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Leg #1	**Job #:**	
Design:	Leg #1 - Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (m)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
KOP at 5454.8 TVD, BUR = 25°/30m										
5,454.8	0.0	0.0	5,454.8	-527.8	0.0	0.0	0.0	0.0	0.0	0.0
5,460.0	1.3	319.0	5,460.0	-533.0	0.0	0.0	0.1	25.0	25.0	0.0
5,480.0	6.3	319.0	5,479.9	-553.0	1.0	-0.9	1.4	25.0	25.0	0.0
5,500.0	11.3	319.0	5,499.7	-572.7	3.4	-2.9	4.4	25.0	25.0	0.0
Upper Ismay										
5,513.6	14.7	319.0	5,513.0	-586.0	5.7	-4.9	7.5	25.0	25.0	0.0
5,520.0	16.3	319.0	5,519.1	-592.1	7.0	-6.0	9.2	25.0	25.0	0.0
5,540.0	21.3	319.0	5,538.1	-611.1	11.8	-10.3	15.7	25.0	25.0	0.0
5,560.0	26.3	319.0	5,556.3	-629.4	17.9	-15.6	23.7	25.0	25.0	0.0
5,580.0	31.3	319.0	5,573.9	-646.9	25.2	-21.9	33.4	25.0	25.0	0.0
5,600.0	36.3	319.0	5,590.5	-663.5	33.6	-29.2	44.5	25.0	25.0	0.0
Lower Ismay										
5,619.9	41.3	319.0	5,606.0	-679.0	43.0	-37.4	57.0	25.0	25.0	0.0
5,620.0	41.3	319.0	5,606.1	-679.1	43.0	-37.4	57.0	25.0	25.0	0.0
5,640.0	46.3	319.0	5,620.5	-693.5	53.5	-46.5	70.9	25.0	25.0	0.0
5,660.0	51.3	319.0	5,633.7	-706.7	64.8	-56.4	85.9	25.0	25.0	0.0
5,680.0	56.3	319.0	5,645.5	-718.5	77.0	-66.9	102.0	25.0	25.0	0.0
Gothic										
5,694.2	59.9	319.0	5,653.0	-726.0	86.1	-74.9	114.1	25.0	25.0	0.0
5,700.0	61.3	319.0	5,655.8	-728.8	89.9	-78.2	119.1	25.0	25.0	0.0
Gothic LSW										
5,718.4	65.9	319.0	5,664.0	-737.0	102.3	-89.0	135.6	25.0	25.0	0.0
5,720.0	66.3	319.0	5,664.6	-737.7	103.4	-89.9	137.1	25.0	25.0	0.0
5,740.0	71.3	319.0	5,671.9	-744.9	117.5	-102.2	155.7	25.0	25.0	0.0
DC-IA (top of Desert Creek)										
5,746.9	73.0	319.0	5,674.0	-747.0	122.5	-106.5	162.3	25.0	25.0	0.0
5,760.0	76.3	319.0	5,677.5	-750.5	132.0	-114.8	174.9	25.0	25.0	0.0
5,780.0	81.3	319.0	5,681.3	-754.3	146.8	-127.6	194.5	25.0	25.0	0.0
5,800.0	86.3	319.0	5,683.5	-756.5	161.8	-140.7	214.4	25.0	25.0	0.0
Start 1150.0 hold at 5813.0 MD - Landing Pt. (29-33)										
5,813.0	89.6	319.0	5,684.0	-757.0	171.6	-149.2	227.4	25.0	25.0	0.0
Target landing within DC-IA										
5,816.1	89.6	319.0	5,684.0	-757.0	173.9	-151.2	230.5	0.0	0.0	0.0
5,900.0	89.6	319.0	5,684.6	-757.6	237.3	-206.3	314.4	0.0	0.0	0.0
6,000.0	89.6	319.0	5,685.4	-758.4	312.7	-271.9	414.4	0.0	0.0	0.0
6,100.0	89.6	319.0	5,686.2	-759.2	388.2	-337.5	514.4	0.0	0.0	0.0
6,200.0	89.6	319.0	5,686.9	-759.9	463.6	-403.1	614.4	0.0	0.0	0.0
6,300.0	89.6	319.0	5,687.7	-760.7	539.1	-468.7	714.4	0.0	0.0	0.0
6,400.0	89.6	319.0	5,688.5	-761.5	614.6	-534.3	814.4	0.0	0.0	0.0
6,500.0	89.6	319.0	5,689.2	-762.3	690.0	-600.0	914.4	0.0	0.0	0.0

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MESA WEST DIRECTIONAL

Mesa West Directional

Planning Report

RESOLUTE NATURAL RESOURCES

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Site Ratherford Unit 29-33
Company:	Resolute Natural Resources	**TVD Reference:**	Est. KB @ 4927.0usft
Project:	Ratherford Unit	**MD Reference:**	Est. KB @ 4927.0usft
Site:	Ratherford Unit 29-33	**North Reference:**	Grid
Well:	29-33H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Leg #1	**Job #:**	
Design:	Leg #1 - Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (m)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,600.0	89.6	319.0	5,690.0	-763.0	765.5	-665.6	1,014.4	0.0	0.0	0.0
6,700.0	89.6	319.0	5,690.8	-763.8	840.9	-731.2	1,114.4	0.0	0.0	0.0
Hold at 6760.0 MD (1175 VS)										
6,760.6	89.6	319.0	5,691.2	-764.3	886.7	-770.9	1,175.0	0.0	0.0	0.0
6,800.0	89.6	319.0	5,691.5	-764.6	916.4	-796.8	1,214.4	0.0	0.0	0.0
6,900.0	89.6	319.0	5,692.3	-765.3	991.9	-862.4	1,314.4	0.0	0.0	0.0
Start1° Build at 6963 MD										
6,963.0	89.6	319.0	5,692.8	-765.8	1,039.4	-903.8	1,377.4	0.0	0.0	0.0
Start 736.6 hold at 7007.0 MD										
7,007.0	90.0	319.0	5,693.0	-766.0	1,072.6	-932.6	1,421.4	1.0	1.0	0.0
7,100.0	90.0	319.0	5,693.0	-766.0	1,142.8	-993.6	1,514.4	0.0	0.0	0.0
7,200.0	90.0	319.0	5,693.0	-766.0	1,218.3	-1,059.2	1,614.4	0.0	0.0	0.0
7,300.0	90.0	319.0	5,693.0	-766.0	1,293.7	-1,124.9	1,714.4	0.0	0.0	0.0
7,400.0	90.0	319.0	5,693.0	-766.0	1,369.2	-1,190.5	1,814.4	0.0	0.0	0.0
7,500.0	90.0	319.0	5,693.0	-766.0	1,444.6	-1,256.1	1,914.4	0.0	0.0	0.0
7,600.0	90.0	319.0	5,693.0	-766.0	1,520.1	-1,321.7	2,014.4	0.0	0.0	0.0
7,700.0	90.0	319.0	5,693.0	-766.0	1,595.6	-1,387.3	2,114.4	0.0	0.0	0.0
Start 0.86° Build at 7743.7 MD (2158 VS)										
7,743.6	90.0	319.0	5,693.0	-766.0	1,628.5	-1,416.0	2,158.0	0.0	0.0	0.0
Start 861.1 hold at 7781.5 MD										
7,781.5	90.3	319.0	5,692.9	-765.9	1,657.1	-1,440.8	2,195.9	0.9	0.9	0.0
7,800.0	90.3	319.0	5,692.8	-765.8	1,671.0	-1,452.9	2,214.4	0.0	0.0	0.0
7,900.0	90.3	319.0	5,692.2	-765.2	1,746.5	-1,518.5	2,314.4	0.0	0.0	0.0
8,000.0	90.3	319.0	5,691.6	-764.6	1,822.0	-1,584.2	2,414.4	0.0	0.0	0.0
8,100.0	90.3	319.0	5,691.1	-764.1	1,897.4	-1,649.8	2,514.4	0.0	0.0	0.0
8,200.0	90.3	319.0	5,690.5	-763.5	1,972.9	-1,715.4	2,614.4	0.0	0.0	0.0
8,300.0	90.3	319.0	5,689.9	-762.9	2,048.4	-1,781.0	2,714.4	0.0	0.0	0.0
8,400.0	90.3	319.0	5,689.4	-762.4	2,123.8	-1,846.6	2,814.3	0.0	0.0	0.0
8,500.0	90.3	319.0	5,688.8	-761.8	2,199.3	-1,912.2	2,914.3	0.0	0.0	0.0
8,600.0	90.3	319.0	5,688.2	-761.2	2,274.7	-1,977.8	3,014.3	0.0	0.0	0.0
Start 6.7° Build at 8642.7 MD (3057 VS)										
8,642.6	90.3	319.0	5,688.0	-761.0	2,306.9	-2,005.8	3,057.0	0.0	0.0	0.0
8,650.0	90.8	319.0	5,687.9	-760.9	2,312.5	-2,010.6	3,064.3	6.7	6.7	0.0
Start 775.5 hold at 8657.4 MD										
8,657.4	91.3	319.0	5,687.8	-760.8	2,318.1	-2,015.5	3,071.8	6.7	6.7	0.0
8,700.0	91.3	319.0	5,686.8	-759.8	2,350.2	-2,043.4	3,114.3	0.0	0.0	0.0
8,800.0	91.3	319.0	5,684.5	-757.5	2,425.6	-2,109.0	3,214.3	0.0	0.0	0.0
8,900.0	91.3	319.0	5,682.2	-755.2	2,501.1	-2,174.6	3,314.3	0.0	0.0	0.0
9,000.0	91.3	319.0	5,679.9	-752.9	2,576.5	-2,240.2	3,414.3	0.0	0.0	0.0
9,100.0	91.3	319.0	5,677.6	-750.6	2,652.0	-2,305.8	3,514.2	0.0	0.0	0.0
9,200.0	91.3	319.0	5,675.3	-748.3	2,727.4	-2,371.4	3,614.2	0.0	0.0	0.0
9,300.0	91.3	319.0	5,673.0	-746.0	2,802.9	-2,437.0	3,714.2	0.0	0.0	0.0

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MESA WEST DIRECTIONAL

Mesa West Directional

Planning Report

RESOLUTE NATURAL RESOURCES

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Site Ratherford Unit 29-33
Company:	Resolute Natural Resources	**TVD Reference:**	Est. KB @ 4927.0usft
Project:	Ratherford Unit	**MD Reference:**	Est. KB @ 4927.0usft
Site:	Ratherford Unit 29-33	**North Reference:**	Grid
Well:	29-33H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Leg #1	**Job #:**	
Design:	Leg #1 - Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (m)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,400.0	91.3	319.0	5,670.7	-743.8	2,878.3	-2,502.6	3,814.1	0.0	0.0	0.0
TD at 9432.9, 5670.0 TVD (3847 VS) - Toe (29-33)										
9,432.9	91.3	319.0	5,670.0	-743.0	2,903.1	-2,524.2	3,847.1	0.0	0.0	0.0

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Landing Pt. (29-33) - plan hits target center - Point	0.00	0.00	5,684.0	171.6	-149.2	198,587.64	2,640,176.58	37° 11' 29.079 N	109° 18' 7.914 W
Toe (29-33) - plan hits target center - Point	0.00	0.00	5,670.0	2,903.1	-2,524.2	201,319.16	2,637,801.58	37° 11' 56.630 N	109° 18' 36.466 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,587.0	1,587.0	Chinle estimate		0.00	
2,585.0	2,585.0	De Chelley		0.00	
2,935.0	2,935.0	Organ Rock		0.00	
5,513.6	5,513.0	Upper Ismay		0.00	
5,619.9	5,606.0	Lower Ismay		0.00	
5,694.2	5,653.0	Gothic		0.00	
5,718.4	5,664.0	Gothic LSW		0.00	
5,746.9	5,674.0	DC-IA (top of Desert Creek)		0.00	
5,816.1	5,684.0	Target landing within DC-IA		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
5,454.8	5,454.8	0.0	0.0	KOP at 5454.8 TVD, BUR = 25°/30m
5,813.0	5,684.0	171.6	-149.2	Start 1150.0 hold at 5813.0 MD
6,760.6	5,691.2	886.7	-770.9	Hold at 6760.0 MD (1175 VS)
6,963.0	5,692.8	1,039.4	-903.8	Start1° Build at 6963 MD
7,007.0	5,693.0	1,072.6	-932.6	Start 736.6 hold at 7007.0 MD
7,743.6	5,693.0	1,628.5	-1,416.0	Start 0.86° Build at 7743.7 MD (2158 VS)
7,781.5	5,692.9	1,657.1	-1,440.8	Start 861.1 hold at 7781.5 MD
8,642.6	5,688.0	2,306.9	-2,005.8	Start 6.7° Build at 8642.7 MD (3057 VS)
8,657.4	5,687.8	2,318.1	-2,015.5	Start 775.5 hold at 8657.4 MD
9,432.9	5,670.0	2,903.1	-2,524.2	TD at 9432.9, 5670.0 TVD (3847 VS)

Site: Ratherford Unit 29-33
Well: 29-33H
Wellbore: Leg #1
Design: Leg #1 - Design #1

RESOLUTE NATURAL RESOURCES

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
5454.8	0.00	0.00	5454.8	0.0	0.0	0.00	0.00	0.0	KOP at 5454.8 TVD, BUR = 25°/30m
5813.0	89.56	318.99	5884.8	171.6	-149.2	25.00	318.99	227.4	Start 1150.0 hold at 5813.0 MD
6963.0	89.56	318.99	5892.8	1039.4	-903.8	0.00	0.00	1377.4	Start1° Build at 6963 MD
7007.0	90.00	318.99	5893.0	1072.6	-932.6	1.00	0.00	1421.4	Start 736.6 hold at 7007.0 MD
7743.6	90.00	318.99	5893.0	1628.5	-1416.0	0.00	0.00	2158.0	Start 0.86° Build at 7743.7 MD (2158 VS)
7781.5	90.32	318.99	5892.9	1657.1	-1440.8	0.86	0.00	2195.9	Start 861.1 hold at 7781.5 MD
8642.6	90.32	318.99	5888.0	2306.9	-2005.8	0.00	0.00	3057.0	Start 6.7° Build at 8642.7 MD (3057 VS)
8657.4	91.31	318.99	5887.8	2318.1	-2015.5	6.70	0.00	3071.8	Start 775.5 hole at 8657.4 MD
9432.9	91.31	318.99	5870.0	2903.1	-2524.2	0.00	0.00	3847.1	TD at 9432.9, 5870.0 TVD (3847 VS)

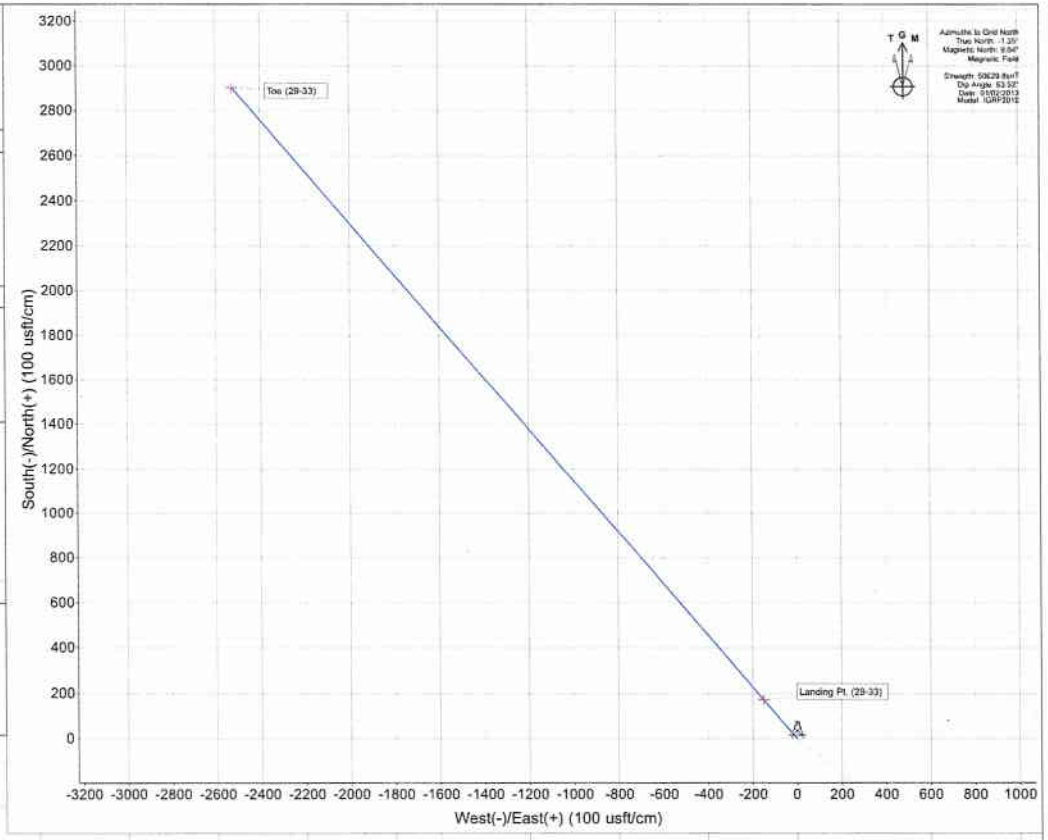
REFERENCE INFORMATION

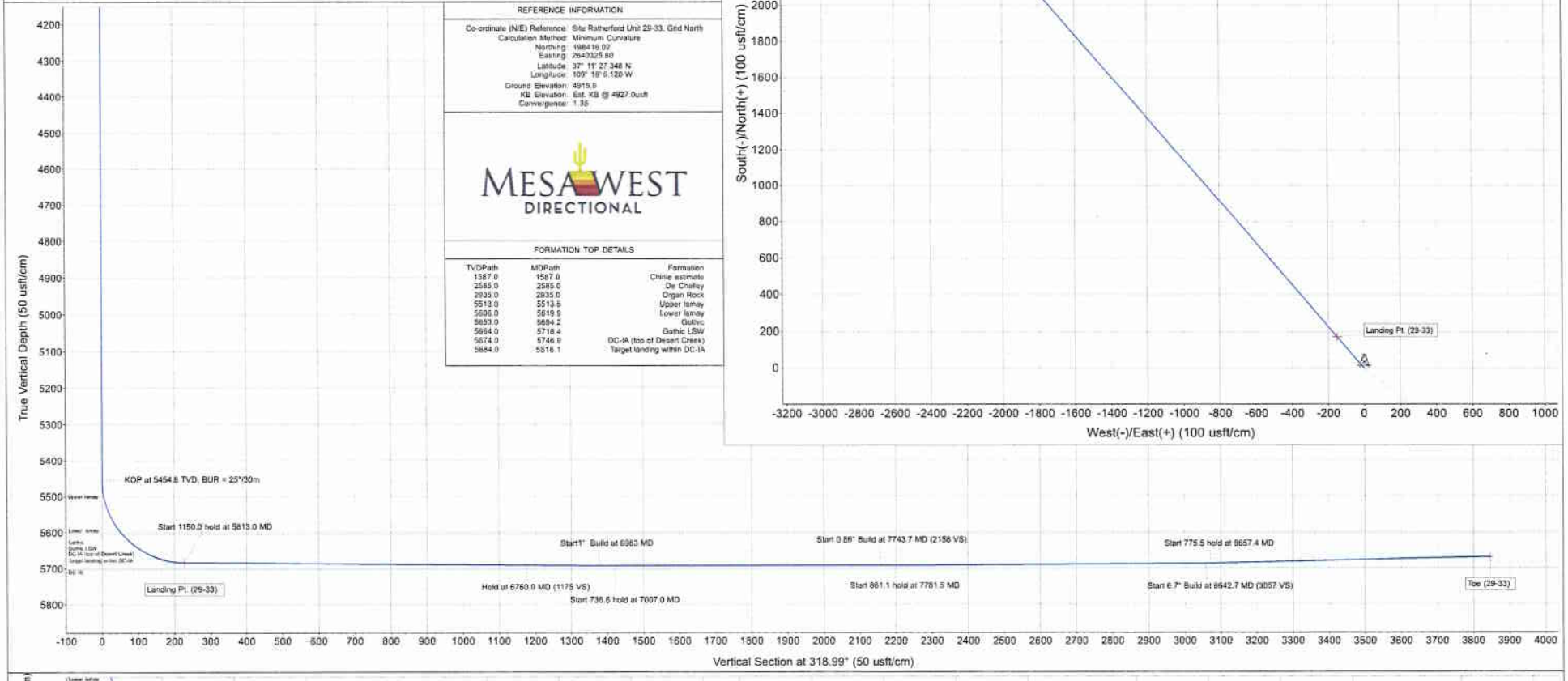
Co-ordinate (N/E) Reference: Site Ratherford Unit 29-33, Grid North
Calculation Method: Minimum Curvature
Northing: 198416.02
Easting: 2640325.80
Latitude: 37° 11' 27.348 N
Longitude: 105° 16' 6.120 W
Ground Elevation: 4915.0
KB Elevation: Est. KB @ 4927.0usft
Convergence: 1.35

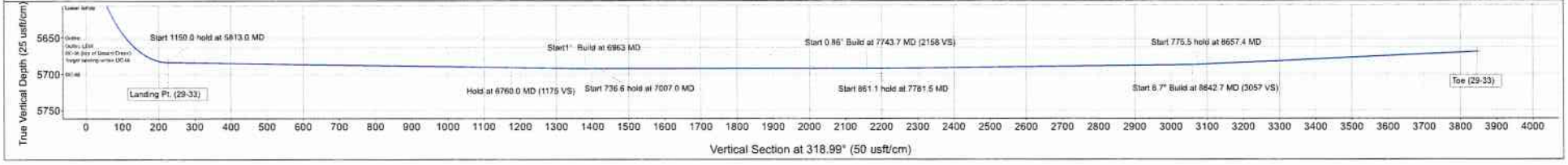
MESA WEST DIRECTIONAL

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1587.0	1587.0	Chinle estimate
2585.0	2585.0	De Chelley
2935.0	2935.0	Organ Rock
5513.0	5513.6	Upper Ismay
5606.0	5619.9	Lower Ismay
5653.0	5694.2	Gothic
5664.0	5718.4	Gothic LSW
5674.0	5746.8	DC-IA (top of Desert Creek)
5884.0	5816.1	Target landing within DC-IA







MESA WEST DIRECTIONAL

Resolute Natural Resources

Ratherford Unit
Ratherford Unit 29-33
29-33H

Leg #2

Plan: Leg #2 - Design #2

Standard Planning Report

31 January, 2013

RESOLUTE NATURAL RESOURCES

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MESA WEST DIRECTIONAL

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Planning Report

RESOLUTE NATURAL RESOURCES

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Site Ratherford Unit 29-33
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Project:	Ratherford Unit	**MD Reference:**	Est. KB @ 4927.0usft
Site:	Ratherford Unit 29-33	**North Reference:**	Grid
Well:	29-33H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Leg #2	**Job #:**	
Design:	Leg #2 - Design #2		

Project Ratherford Unit

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah South 4303		Using geodetic scale factor

Site Ratherford Unit 29-33

Site Position:		**Northing:**	198,416.02 usft	**Latitude:**	37° 11' 27.348 N
From:	Lat/Long	**Easting:**	2,640,325.80 usft	**Longitude:**	109° 18' 6.120 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	1.35 °

Well 29-33H

Well Position	**+N/-S**	0.0 usft	**Northing:**	198,416.02 usft	**Latitude:**	37° 11' 27.348 N
	+E/-W	0.0 usft	**Easting:**	2,640,325.80 usft	**Longitude:**	109° 18' 6.120 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	4,915.0 usft

Wellbore Leg #2

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	01/02/2013	10.39	63.52	50,630

Design Leg #2 - Design #2

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	5,444.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	128.50

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
5,444.0	0.00	0.00	5,444.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,814.7	88.49	128.50	5,683.9	-145.5	182.9	23.87	23.87	34.66	128.50	D2_Landing Pt. (29-3
5,819.5	88.21	128.50	5,684.1	-148.5	186.6	5.85	-5.85	0.00	180.00	
6,073.0	88.21	128.50	5,692.0	-306.2	385.0	0.00	0.00	0.00	0.00	
6,083.4	88.32	128.50	5,692.3	-312.7	393.1	1.00	1.00	0.00	0.00	
6,481.1	88.32	128.50	5,704.0	-560.2	704.1	0.00	0.00	0.00	0.00	
6,547.2	86.99	128.50	5,706.7	-601.3	755.8	2.00	-2.00	0.00	180.00	
6,743.5	86.99	128.50	5,717.0	-723.3	909.2	0.00	0.00	0.00	0.00	
6,754.9	86.88	128.50	5,717.6	-730.4	918.2	1.00	-1.00	0.00	180.00	
7,056.1	86.88	128.50	5,734.0	-917.6	1,153.5	0.00	0.00	0.00	0.00	D2_Toe (29-33_Leg#2

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MESA WEST DIRECTIONAL

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Planning Report

RESOLUTE NATURAL RESOURCES

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Company:	Resolute Natural Resources	**TVD Reference:**	Est. KB @ 4927.0usft
Project:	Ratherford Unit	**MD Reference:**	Est. KB @ 4927.0usft
Site:	Ratherford Unit 29-33	**North Reference:**	Grid
Well:	29-33H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Leg #2	**Job #:**	
Design:	Leg #2 - Design #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (m)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Tie-on at 5443.99 TVD, BUR = 23.87°, TFO 128.5										
5,444.0	0.0	0.0	5,444.0	-517.0	0.0	0.0	0.0	0.0	0.0	0.0
5,460.0	3.8	128.5	5,460.0	-533.0	-0.3	0.4	0.5	23.9	23.9	0.0
5,480.0	8.6	128.5	5,479.9	-552.9	-1.7	2.1	2.7	23.9	23.9	0.0
5,500.0	13.4	128.5	5,499.5	-572.5	-4.0	5.1	6.5	23.9	23.9	0.0
Upper Ismay										
5,514.0	16.7	128.5	5,513.0	-586.0	-6.3	7.9	10.1	23.9	23.9	0.0
5,520.0	18.1	128.5	5,518.7	-591.7	-7.4	9.3	11.9	23.9	23.9	0.0
5,540.0	22.9	128.5	5,537.5	-610.5	-11.8	14.8	18.9	23.9	23.9	0.0
5,560.0	27.7	128.5	5,555.5	-628.5	-17.1	21.5	27.5	23.9	23.9	0.0
5,580.0	32.5	128.5	5,572.8	-645.8	-23.4	29.4	37.5	23.9	23.9	0.0
5,600.0	37.2	128.5	5,589.2	-662.3	-30.5	38.3	48.9	23.9	23.9	0.0
5,620.0	42.0	128.5	5,604.6	-677.7	-38.4	48.3	61.7	23.9	23.9	0.0
Lower Ismay										
5,621.8	42.4	128.5	5,606.0	-679.0	-39.2	49.2	62.9	23.9	23.9	0.0
5,640.0	46.8	128.5	5,618.9	-691.9	-47.1	59.2	75.7	23.9	23.9	0.0
5,660.0	51.6	128.5	5,632.0	-705.0	-56.5	71.1	90.8	23.9	23.9	0.0
5,680.0	56.3	128.5	5,643.8	-716.8	-66.6	83.7	107.0	23.9	23.9	0.0
Gothic										
5,697.6	60.5	128.5	5,653.0	-726.0	-75.9	95.5	122.0	23.9	23.9	0.0
5,700.0	61.1	128.5	5,654.1	-727.2	-77.2	97.1	124.1	23.9	23.9	0.0
5,720.0	65.9	128.5	5,663.1	-736.1	-88.4	111.1	142.0	23.9	23.9	0.0
Gothic LSW										
5,722.3	66.4	128.5	5,664.0	-737.0	-89.7	112.7	144.0	23.9	23.9	0.0
5,740.0	70.7	128.5	5,670.5	-743.5	-99.9	125.6	160.5	23.9	23.9	0.0
DC-IA (top of Desert Creek)										
5,751.4	73.4	128.5	5,674.0	-747.0	-106.7	134.1	171.4	23.9	23.9	0.0
5,760.0	75.4	128.5	5,676.3	-749.3	-111.8	140.6	179.7	23.9	23.9	0.0
5,780.0	80.2	128.5	5,680.5	-753.5	-124.0	155.9	199.2	23.9	23.9	0.0
5,800.0	85.0	128.5	5,683.1	-756.1	-136.4	171.4	219.0	23.9	23.9	0.0
Start 5.85° Drop at 5814.7 MD - D2_Landing Pt. (29-33_Leg#2)										
5,814.7	88.5	128.5	5,683.9	-756.9	-145.5	182.9	233.7	23.9	23.9	0.0
Target landing within DC-IA										
5,816.6	88.5	128.5	5,684.0	-757.0	-146.6	184.3	235.6	0.0	0.0	0.0
Start 253.6 hold at 5819.5 MD										
5,819.5	88.2	128.5	5,684.1	-757.1	-148.5	186.6	238.5	9.5	-9.5	0.0
5,900.0	88.2	128.5	5,686.6	-759.6	-198.6	249.6	319.0	0.0	0.0	0.0
6,000.0	88.2	128.5	5,689.7	-762.7	-260.8	327.8	418.9	0.0	0.0	0.0
Start 1° Build at 6073.0 MD (492 VS)										
6,073.0	88.2	128.5	5,692.0	-765.0	-306.2	385.0	491.9	0.0	0.0	0.0
Start 397.6 hold at 6083.4 MD										
6,083.4	88.3	128.5	5,692.3	-765.3	-312.7	393.1	502.3	1.0	1.0	0.0

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MESA WEST DIRECTIONAL

Mesa West Directional

Planning Report

RESOLUTE NATURAL RESOURCES

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Site Ratherford Unit 29-33
Company:	Resolute Natural Resources	**TVD Reference:**	Est. KB @ 4927.0usft
Project:	Ratherford Unit	**MD Reference:**	Est. KB @ 4927.0usft
Site:	Ratherford Unit 29-33	**North Reference:**	Grid
Well:	29-33H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Leg #2	**Job #:**	
Design:	Leg #2 - Design #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (m)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,100.0	88.3	128.5	5,692.8	-765.8	-323.0	406.1	518.9	0.0	0.0	0.0
6,200.0	88.3	128.5	5,695.7	-768.7	-385.2	484.3	618.8	0.0	0.0	0.0
6,300.0	88.3	128.5	5,698.7	-771.7	-447.5	562.5	718.8	0.0	0.0	0.0
6,400.0	88.3	128.5	5,701.6	-774.6	-509.7	640.7	818.7	0.0	0.0	0.0
DC-IB										
6,447.0	88.3	128.5	5,703.0	-776.0	-539.0	677.5	865.7	0.0	0.0	0.0
Start 2° Drop at 6481.1 MD (900 VS)										
6,481.1	88.3	128.5	5,704.0	-777.0	-560.2	704.1	899.8	0.0	0.0	0.0
6,500.0	87.9	128.5	5,704.6	-777.6	-571.9	718.9	918.7	2.0	-2.0	0.0
Start 196.3 hold at 6547.2 MD										
6,547.2	87.0	128.5	5,706.7	-779.7	-601.3	755.8	965.8	2.0	-2.0	0.0
6,600.0	87.0	128.5	5,709.5	-782.5	-634.1	797.1	1,018.6	0.0	0.0	0.0
6,700.0	87.0	128.5	5,714.7	-787.7	-696.3	875.3	1,118.4	0.0	0.0	0.0
Start 1° Drop at 6743.5 MD (1162 VS)										
6,743.5	87.0	128.5	5,717.0	-790.0	-723.3	909.2	1,161.9	0.0	0.0	0.0
Start 301.2 hold at 6754.9 MD										
6,754.9	86.9	128.5	5,717.6	-790.6	-730.4	918.2	1,173.2	1.0	-1.0	0.0
6,800.0	86.9	128.5	5,720.1	-793.1	-758.4	953.4	1,218.3	0.0	0.0	0.0
6,900.0	86.9	128.5	5,725.5	-798.5	-820.6	1,031.5	1,318.1	0.0	0.0	0.0
7,000.0	86.9	128.5	5,730.9	-803.9	-882.8	1,109.7	1,418.0	0.0	0.0	0.0
TD at 7056.1 MD, 5734.0 TVD (1474 VS) - D2_Toe (29-33_Leg#2)										
7,056.1	86.9	128.5	5,734.0	-807.0	-917.6	1,153.5	1,474.0	0.0	0.0	0.0

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
D2_Landing Pt. (29-33_L - plan hits target center - Point	0.00	0.00	5,683.9	-145.5	182.9	198,270.52	2,640,508.70	37° 11' 25.867 N	109° 18' 3.903 W
D2_Toe (29-33_Leg#2) - plan hits target center - Point	0.00	0.00	5,734.0	-917.6	1,153.6	197,498.42	2,641,479.41	37° 11' 18.010 N	109° 17' 52.135 W

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MESA WEST DIRECTIONAL

Mesa West Directional

Planning Report

RESOLUTE NATURAL RESOURCES

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Site Ratherford Unit 29-33
Company:	Resolute Natural Resources	**TVD Reference:**	Est. KB @ 4927.0usft
Project:	Ratherford Unit	**MD Reference:**	Est. KB @ 4927.0usft
Site:	Ratherford Unit 29-33	**North Reference:**	Grid
Well:	29-33H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Leg #2	**Job #:**	
Design:	Leg #2 - Design #2		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,587.0	1,587.0	Chinle estimate		0.00	
2,585.0	2,585.0	De Chelley		0.00	
2,935.0	2,935.0	Organ Rock		0.00	
5,514.0	5,513.0	Upper Ismay		0.00	
5,621.8	5,606.0	Lower Ismay		0.00	
5,697.6	5,653.0	Gothic		0.00	
5,722.3	5,664.0	Gothic LSW		0.00	
5,751.4	5,674.0	DC-IA (top of Desert Creek)		0.00	
5,816.6	5,684.0	Target landing within DC-IA		0.00	
6,447.0	5,703.0	DC-IB		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
5,444.0	5,444.0	0.0	0.0	Tie-on at 5443.99 TVD, BUR = 23.87°, TFO 128.5
5,814.7	5,683.9	-145.5	182.9	Start 5.85° Drop at 5814.7 MD
5,819.5	5,684.1	-148.5	186.6	Start 253.6 hold at 5819.5 MD
6,073.0	5,692.0	-306.2	385.0	Start 1° Build at 6073.0 MD (492 VS)
6,083.4	5,692.3	-312.7	393.1	Start 397.6 hold at 6083.4 MD
6,481.1	5,704.0	-560.2	704.1	Start 2° Drop at 6481.1 MD (900 VS)
6,547.2	5,706.7	-601.3	755.8	Start 196.3 hold at 6547.2 MD
6,743.5	5,717.0	-723.3	909.2	Start 1° Drop at 6743.5 MD (1162 VS)
6,754.9	5,717.6	-730.4	918.2	Start 301.2 hold at 6754.9 MD
7,056.1	5,734.0	-917.6	1,153.5	TD at 7056.1 MD, 5734.0 TVD (1474 VS)

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Sundry Number: 95615 API Well Number: 43037309320000

Site: Ratherford Unit 29-33
Well: 29-33H
Wellbore: Leg #2
Design: Leg #2 - Design #2

RESOLUTE NATURAL RESOURCES

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
5444.0	0.00	0.00	5444.0	0.0	0.0	0.00	0.00	0.0	Tie-on at 5443.99 TVD, BUR = 23.87°, TFO 128.5
5814.7	88.49	128.50	5683.9	-145.5	182.8	23.87	128.50	233.7	Start 5.85° Drop at 5814.7 MD
5819.5	88.21	128.50	5684.1	-148.5	186.6	5.85	180.00	238.5	Start 253.6 hold at 5819.5 MD
6073.0	88.21	128.50	5692.0	-306.2	385.0	0.00	0.00	491.9	Start 1° Build at 6073.0 MD (492 VS)
6083.4	88.32	128.50	5692.3	-312.7	393.1	0.00	1.00	502.3	Start 397.6 hold at 6083.4 MD
6481.1	88.32	128.50	5704.0	-560.2	704.1	0.00	0.00	899.8	Start 2° Drop at 6481.1 MD (900 VS)
6547.2	86.99	128.50	5706.7	-601.3	755.8	2.00	180.00	965.8	Start 196.3 hold at 6547.2 MD
6743.5	86.99	128.50	5717.0	-723.3	909.2	0.00	0.00	1161.9	Start 1° Drop at 6743.5 MD (1162 VS)
6754.9	86.88	128.50	5717.6	-730.4	918.2	1.00	180.00	1173.2	Start 301.2 hold at 6754.9 MD
7056.1	86.88	128.50	5734.0	-917.6	1153.5	0.00	0.00	1474.6	TD at 7056.1 MD, 5734.0 TVD (1474 VS)

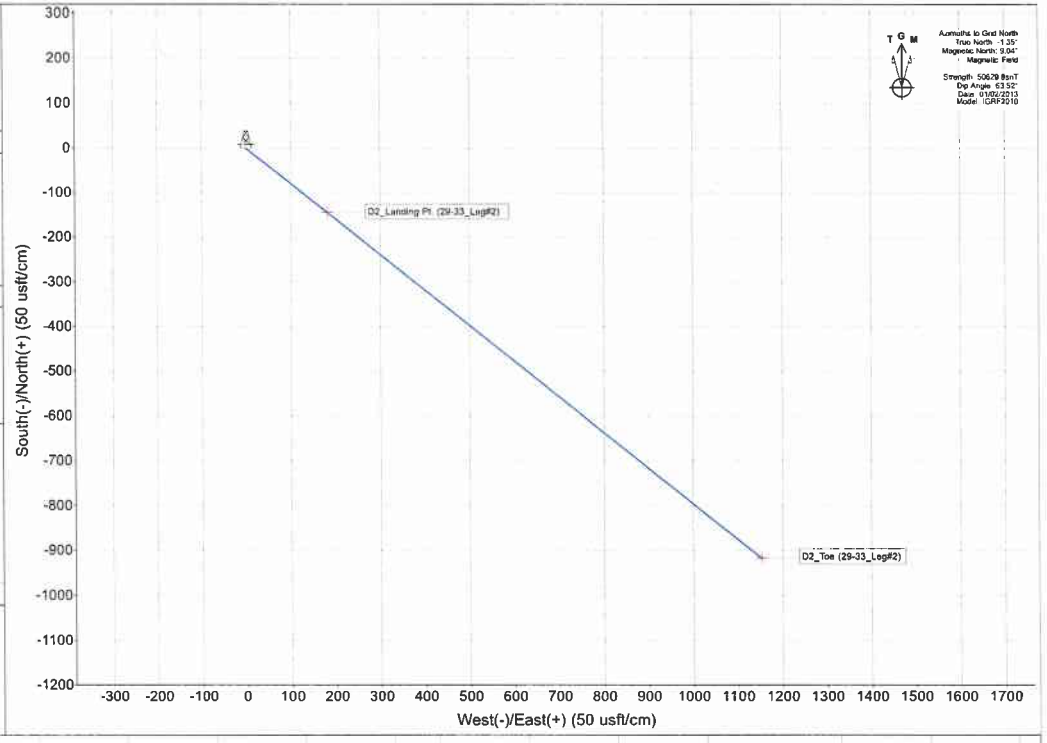
REFERENCE INFORMATION

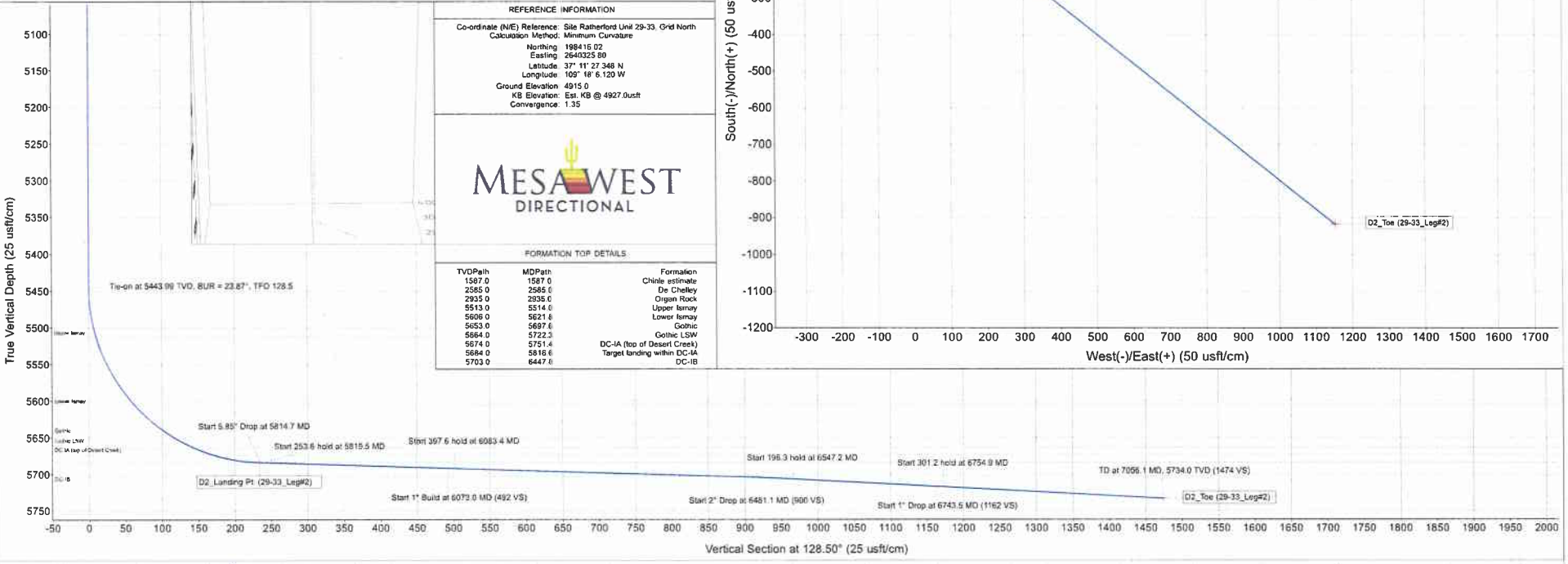
Co-ordinate (N/E) Reference: Site Ratherford Unit 29-33, Grid North
Calculation Method: Minimum Curvature
Northing: 198416.02
Easting: 2640325.80
Latitude: 37° 11' 27.348 N
Longitude: 109° 18' 6.120 W
Ground Elevation: 4915.0
KB Elevation: Est. KB @ 4927.0usft
Convergence: 1.35

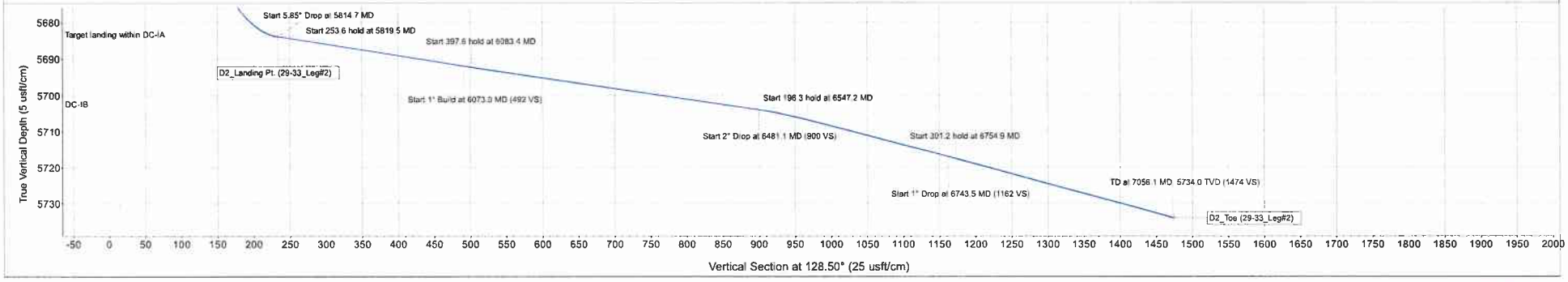
MESA WEST DIRECTIONAL

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1587.0	1587.0	Chinle estimate
2585.0	2585.0	De Chelley
2935.0	2935.0	Organ Rock
5513.0	5514.0	Upper Ismay
5606.0	5621.8	Lower Ismay
5653.0	5697.6	Gothic
5664.0	5722.3	Gothic LSW
5674.0	5751.4	DC-IA (top of Desert Creek)
5684.0	5816.6	Target landing within DC-IA
5703.0	6447.6	DC-IB





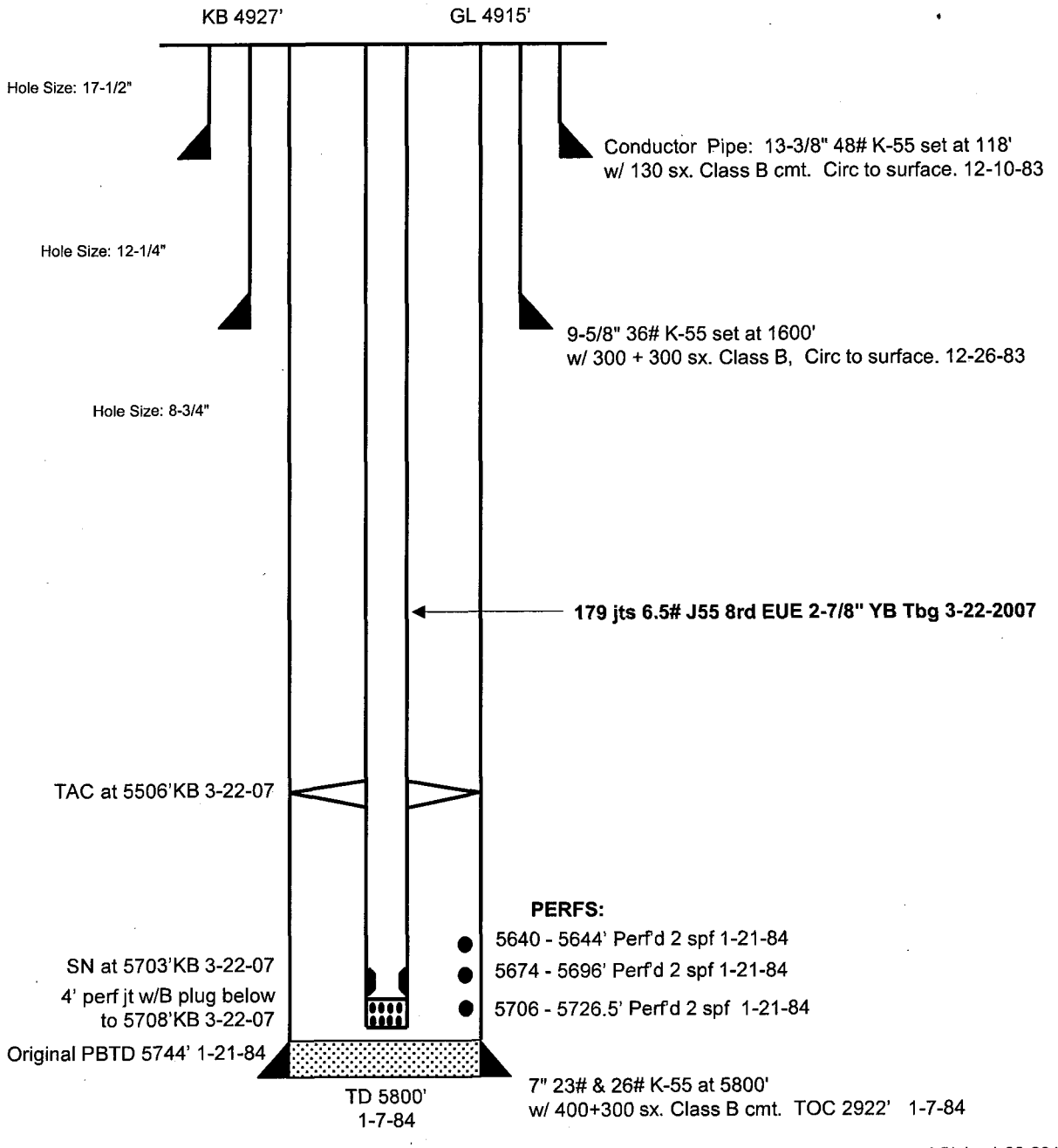


RATHERFORD UNIT # 29-33

PRODUCER

GREATER ANETH FIELD
1859' FSL & 1836' FEL
SEC 29-T41S-R24E
SAN JUAN COUNTY, UTAH
API 43-037-30932
PRISM 0043140

Attachment 1 - Existing



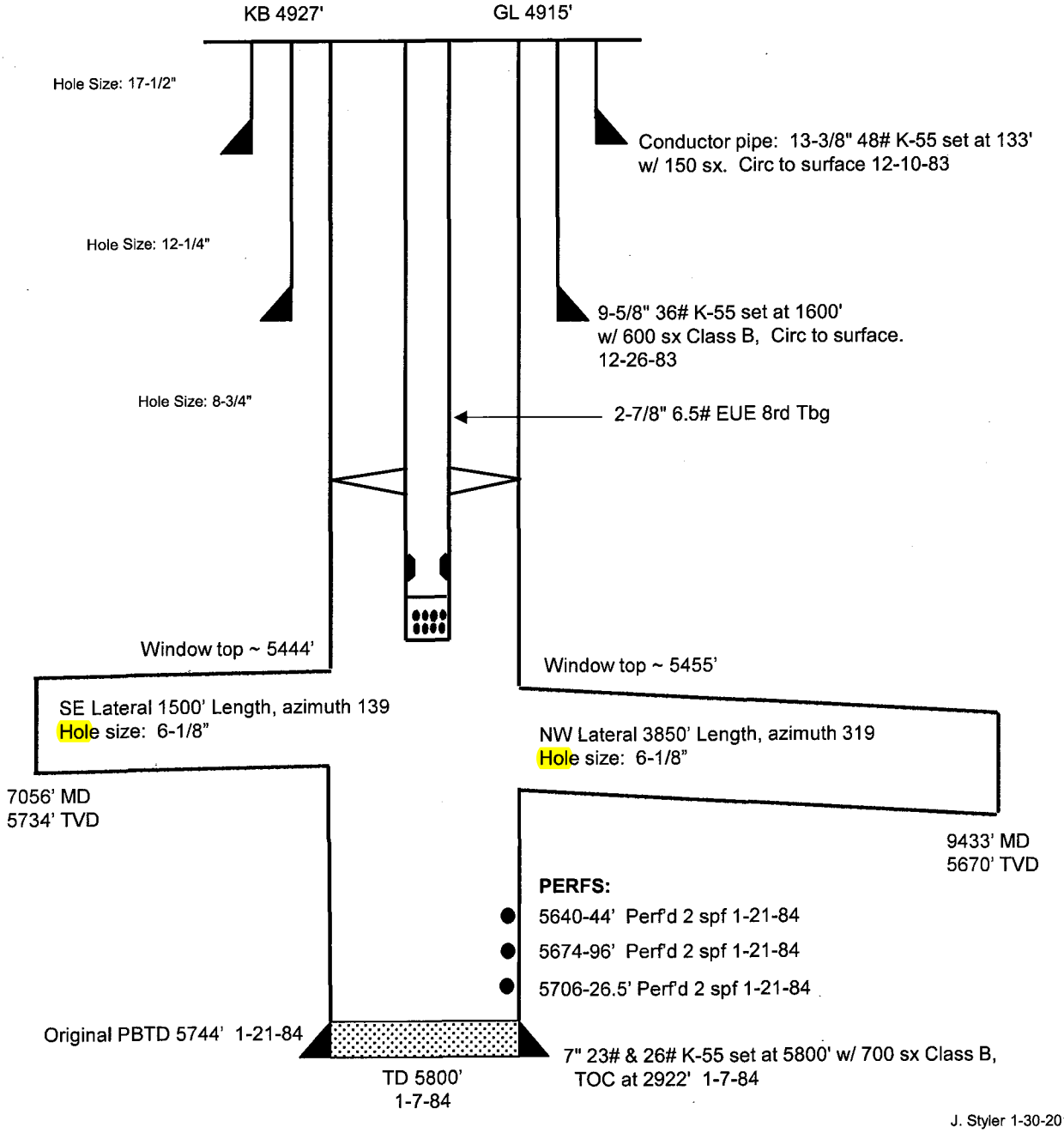
J Styler 1-22-2013

RATHERFORD UNIT # 29-33H

PRODUCER

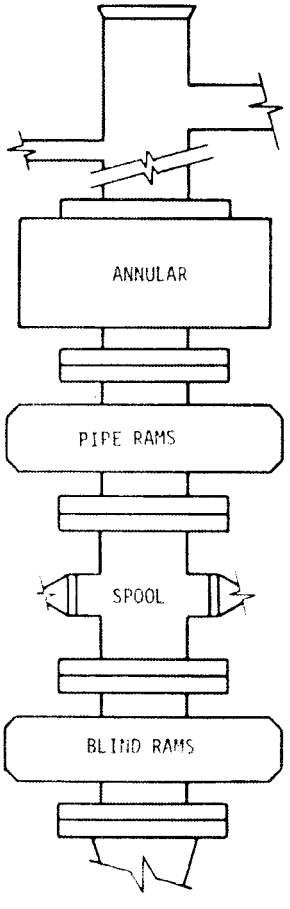
GREATER ANETH FIELD
1859' FSL & 1836' FEL
SEC 29-T41S-R24E
SAN JUAN COUNTY, UTAH
API 43-037-30932
PRISM 0043140

Attachment 2 - Proposed



J. Styler 1-30-2013

Attachment No. 3



7-1/16 inch x 5000 psig with stainless steel trim for sour service operations

2-7/8 inch pipe rams, 7-1/16 inch x 5000 psig with stainless steel trim for sour service operations

7-1/16 inch x 5000 psig with stainless steel trim for sour service operations

TYPICAL WORKOVER BOP STACK

Figure 30

[redacted]

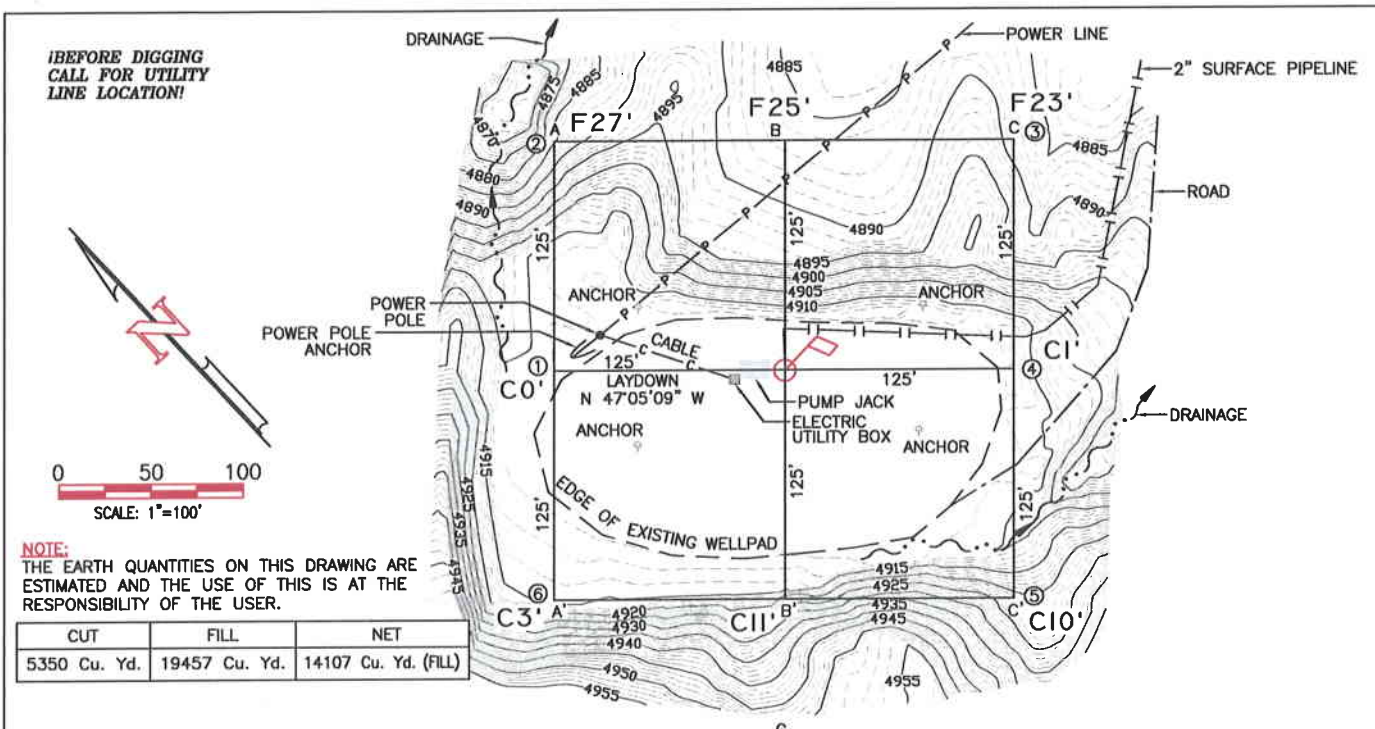
Well No	UWP No	WUP # 1996	WUP # 1997	Sec-Twp-Rg	GPS Coordinates		East (1983)	North (1983)	Appl #	Completed	Comments
Moab							658950	4121100			
3-PIT	PIT	96-529	97-223	18-41S-25E							Abandoned
7	12-0715	96-530	97-201	17-41S-25E	37° 13.226' N	109° 12.747' W	659410	4120660	29718, A3777	9/14/61	
8	12-0716	96-531	97-202	17-41S-25E	37° 13.196' N	109° 12.187' W	659680	4120460	29718 A3777	10/3/61	
4	12-0717	96-532	97-203	17-41S-25E	37° 13.166' N	109° 12.147' W	659680	4120520	29718 A3777	10/17/61	
5	12-0718	96-533	97-204	17-41S-25E	37° 13.132' N	109° 12.098' W	659930	4120400	29718, A3777	10/19/61	
6	12-0719	96-534	97-205	17-41S-25E	37° 13.098' N	109° 12.053' W	659990	4120330	31023 A-3777	4/26/62	
7	12-0720	96-512	97-206	17-41S-25E	37° 13.065' N	109° 12.032' W	659725	4120325	31023 A-3777	4/30/62	
8	12-0721	96-513	97-207	17-41S-25E	37° 13.023' N	109° 12.980' W	659800	4120265	31023 A-3777	5/4/62	
9	12-0727	96-514	97-208	17-41S-25E	37° 13.010' N	109° 11.932' W	659680	4120230	31023 A-3777	5/8/62	
10	12-0723	96-515	97-209	17-41S-25E	37° 12.990' N	109° 11.866' W	659980	4120270	31023 A-3777	5/12/62	
11	12-0724	96-516	97-210	17-41S-25E	37° 12.969' N	109° 11.809' W	660060	4120210	29718 31023	11/28/62	
12	12-0725	96-517	97-211	17-41S-25E	37° 13.026' N	109° 11.768' W	660125	4120270	29718 A-3777	12/5/62	Not in Service, no pump
13	12-0726	96-518	97-212	18-41S-25E	37° 13.432' N	109° 12.415' W	659145	4121010	29178 31023	12/9/62	
14	12-0727	96-519	97-213	18-41S-25E	37° 13.436' N	109° 12.473' W	659045	4121010	A-31023	12/12/62	
15	12-0728	96-520	97-214	17-41S-25E	37° 13.404' N	109° 12.365' W	659230	4120950	A-31023	12/26/62	
16	12-0729	96-521	97-215	17-41S-25E	37° 13.361' N	109° 12.341' W	659205	4120870	A-31023	1/8/63	
17	12-0730	96-522	97-216	17-41S-25E	37° 13.312' N	109° 12.325' W	659285	4120785	A-31023	1/12/63	
18	12-0731	96-523	97-217	17-41S-25E	37° 13.027' N	109° 12.894' W	659640	4120770	29718, A3777	4/5/63	
19	12-0732	96-524	97-218	17-41S-25E	37° 13.002' N	109° 12.900' W	659825	4120730	29718, A3777	4/10/63	
20	12-0733	96-525	97-219	17-41S-25E	37° 13.002' N	109° 12.954' W	659780	4120335	29718 A3777	4/17/63	
21	12-0734	96-526	97-220	17-41S-25E	37° 13.013' N	109° 12.965' W	659830	4120210	29718	4/19/63	
22	12-0735	96-527	97-221	17-41S-25E	37° 13.030' N	109° 12.015' W	659750	4120278	A3777, 29718	4/22/63	Community
O-24	12-0736	96-528	97-222	17-41S-25E	37° 13.475' N	109° 12.504' W	659815	4120300		3/14/64	former oil well: MCU O-24, 13-3/8" surf, 5-5/8" prod. csgs 1200' deep, out of service since 1975, needs P&A

Sundry Number: 35615 API Well Number: 43037309320000

Well No	DWR No	WUP # [illegible]	WUP # [illegible]	Sec-Twp-Rg	GPS Coordinates		East [illegible]	North [illegible]	Appl #	Completed	Comments
Ratherford											
[illegible]	09-0614	95-496	97-224	5-41S-24E	37° 15.33[illegible] N	109° 1[illegible].863 W	65[illegible]40	4124350	32-773	11/[illegible]/61	
2	09-0615	95-497	97-225	5-41S-24E	37° [illegible] 330 N	109° [illegible].565 W	650960	4124380	32-773	11/28/61	
3	09-0616	95-498	97-226	5-41S-24E	37° 15.332 N	109° 17.928 W	650380	4124380	32-733	12/7/61	
4	09-0617	95-499	97-227	5-41S-24E	37° 15.331 N	109° 17.900 W	650470	4124380	32-733	12/3/62	
5	09-0618	95-500	97-228	5-41S-24E	37° 15.335 N	109° 17.835 W	650550	4124380	32-733	12/11/62	
6	09-0619	95-501	97-229	5-41S-24E	37° 15.349 N	109° 17.770 W	650840	4124380	32-733	12/28/62	
7	09-0620	95-502	97-230	5-41S-24E	37° 15.353 N	109° 17.750 W	650900	4124380	32-733	12/15/62	
8	09-0621	95-503	97-231	5-41S-24E	37° 15.355 N	109° 17.720 W	651040	4124380	32-733	12/21/62	
9	09-0622	96-202	97-232	5-41S-24E	37° 15.360 N	109° 1[illegible].669 W	651120	4124400	32-733	12/27/62	
10	09-0623	95-504	97-233	5-41S-24E	37° 15.364 N	109° 1[illegible].650 W	651205	4124425	32-733	1/2/63	
11	09-0624	95-505	97-234	5-41S-24E	37° 15.305 N	109° 17.627 W	651290	4124430	32-733	1/5/63	
13	09-0625	95-506	97-235	5-41S-24E	37° 15.364 N	109° 17.545 W	651470	4124430	32-733	1/10/63	
14	09-0626	95-507	97-236	5-41S-24E	37° 15.367 N	109° 17.506 W	651550	4124430	32-733	1/16/63	
15	09-0627	95-508	97-237	5-41S-24E	37° 15.368 N	109° 17.464 W	651640	4124430	32-733	2/5/63	
16	09-0628	95-509	97-238	5-41S-24E	37° 15.373 N	109° 17.421 W	651760	4124460	32-733	2/4/63	
17	09-0629	95-510	97-239	5-41S-24E	37° 15.374 N	109° 17.381 W	651840	4124460	32-733	2/8/63	
14-33	09-0642	95-511	97-240	14-41S-24E	37° 15.389 N	109° 17.560 W	645850	4119050			Water well abandoned 09-01-1996, Cut & Capped

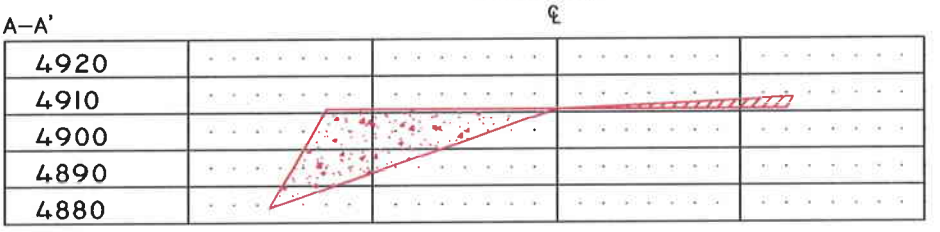
Summary		35	operated wells						
		2	not prod	95-528	95-517				
		2	aband.	95-529	95-511				
		1	NTU	95-527					
		40	Total Wells in listed in RCMA-55-0E, WUP 95-496 to 95-528 & 96-202						

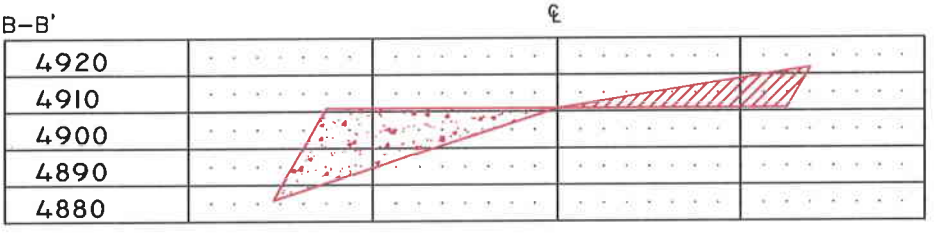
Additional Unlisted Wells at Ratherford		Sec-Twp-Rg	GPS Coordinates			Appl #	Completed	Comments
19		5-41S-24E	37° 15.217 N	109° 16.769 W		32-773	4/22/61	In service
20		5-41S-24E	37° 15.220 N	109° 16.658 W		32-773	4/14/64	In Service
22		5-41S-24E	37° 15.219 N	109° 16.632 W		72-773		Operable but has power problems
23		5-41S-24E	37° 15.228 N	109° 17.014 W		32273	4/25/61	Operable but has power problems
	4	Additional unlisted wells						

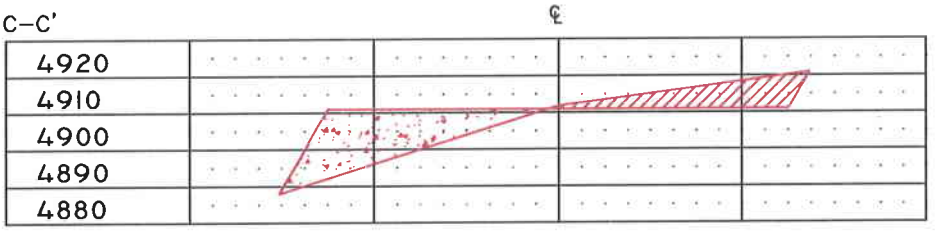


NOTE:
THE EARTH QUANTITIES ON THIS DRAWING ARE ESTIMATED AND THE USE OF THIS IS AT THE RESPONSIBILITY OF THE USER.

CUT	FILL	NET
5350 Cu. Yd.	19457 Cu. Yd.	14107 Cu. Yd. (FILL)







CROSS SECTIONS
HORIZONTAL: 1"=100'
VERTICAL: 1"=50'

EXHIBIT IA

LEASE: RATHERFORD UNIT WELL NO. 29-33
1859' FSL, 1836' FEL (SURFACE)
544' FNL, 1069' FWL (BOTTOM HOLE 1)
FOOTAGES: 829' FSL, 628' FEL (BOTTOM HOLE 2)
SEC. 29 TWN. 41 S RNG. 24 E S.L.M.
LATITUDE: N 37.191171° LONGITUDE: W 109.3026332°
ELEVATION: 4911

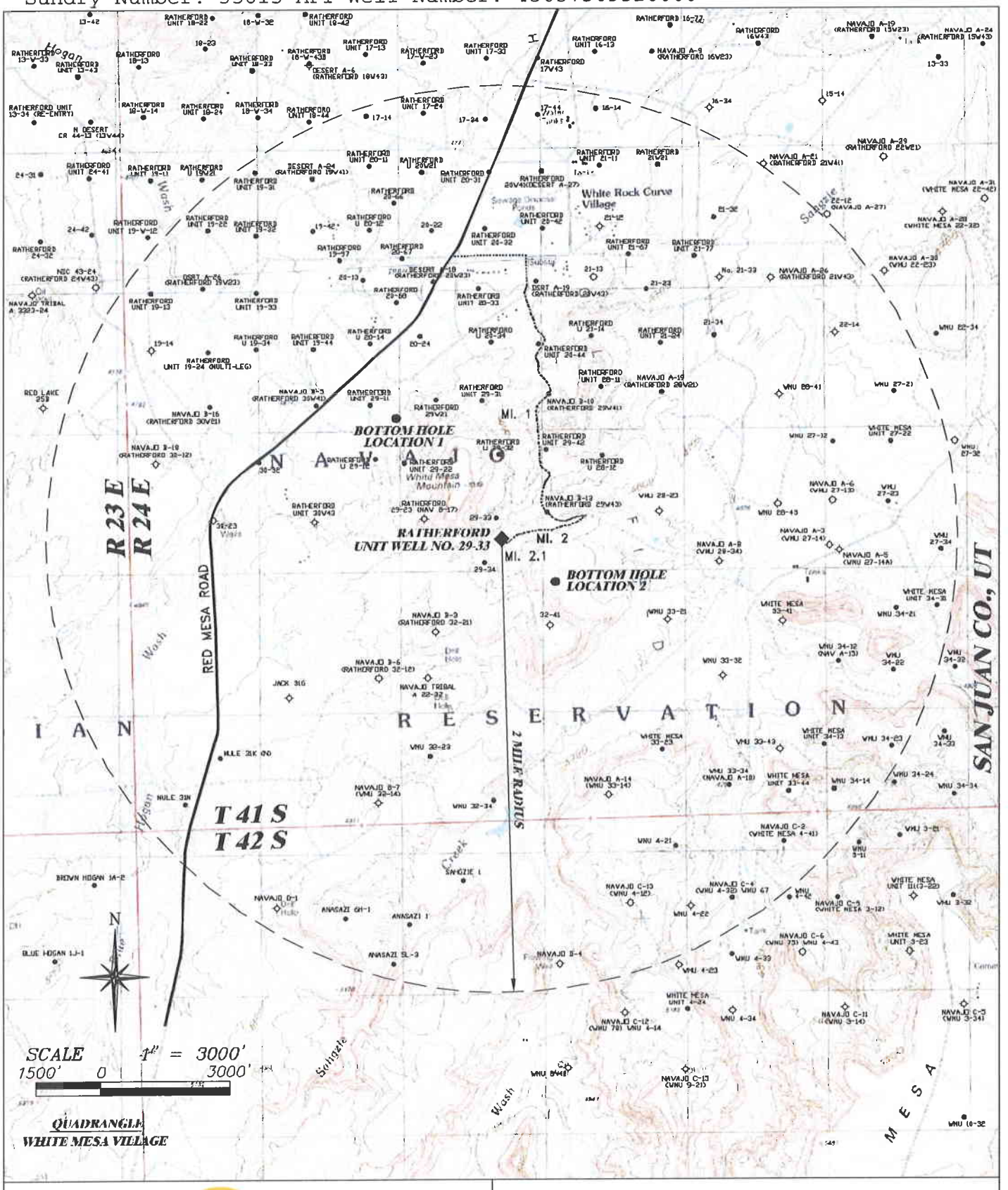
RESOLUTE
NATURAL RESOURCES

SURVEYED: 02/08/13	REV. DATE:	APP. BY J.A.V.
DRAWN BY: H.S.	DATE DRAWN: 03/01/13	FILE NAME: 10445C01

UNITED FIELD SERVICES INC.

P.O. BOX 3651
FARMINGTON, NM 87499
OFFICE: (505) 334-0408

RECEIVED: Mar. 14, 2013



UNITED FIELD SERVICES INC.

P.O. BOX 3651
FARMINGTON, N.M.
(505) 334-0408

SCALE: 1" = 3000'
JOB No. 10445
DATE: 03/01/13

PROPOSED WELL LOCATION FOR RESOLUTE NATURAL RESOURCES RATHERFORD UNIT WELL NO. 29-33

EXISTING ROAD
ACCESS/EGRESS

EXHIBIT 2A

BY: H.S. DWG.#: 10445T01

RECEIVED: Mar. 14, 2013

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 03/14/2013

API NO. ASSIGNED: 43-037-30932

WELL NAME: 29-33

OPERATOR: RESOLUTE NATURAL (N2700)

CONTACT: SHERRY GLASS

PHONE NUMBER: 303-573-4886

PROPOSED LOCATION:

NWSE 29 410S 240E

SURFACE: 1859 FSL 1836 FEL

BOTTOM: 0544 FNL 1069 FWL

COUNTY: SAN JUAN

LATITUDE: 37.19107 LONGITUDE: -109.30255

UTM SURF EASTINGS: 650660 NORTHINGS: 4117418

FIELD NAME: GREATER ANETH (365)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 2 - Indian

LEASE NUMBER: 14-20-603-407

SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: DSCR

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[] Ind[2] Sta[] Fee[]
(No. PA002769)

N/ Potash (Y/N)

N/ Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. 95-527)

N/ RDCC Review (Y/N)
(Date:)

N/A Fee Surf Agreement (Y/N)

N/A Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit: RATHERFORD

___ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

___ R649-3-3. Exception

✓ Drilling Unit

Board Cause No: 152-6

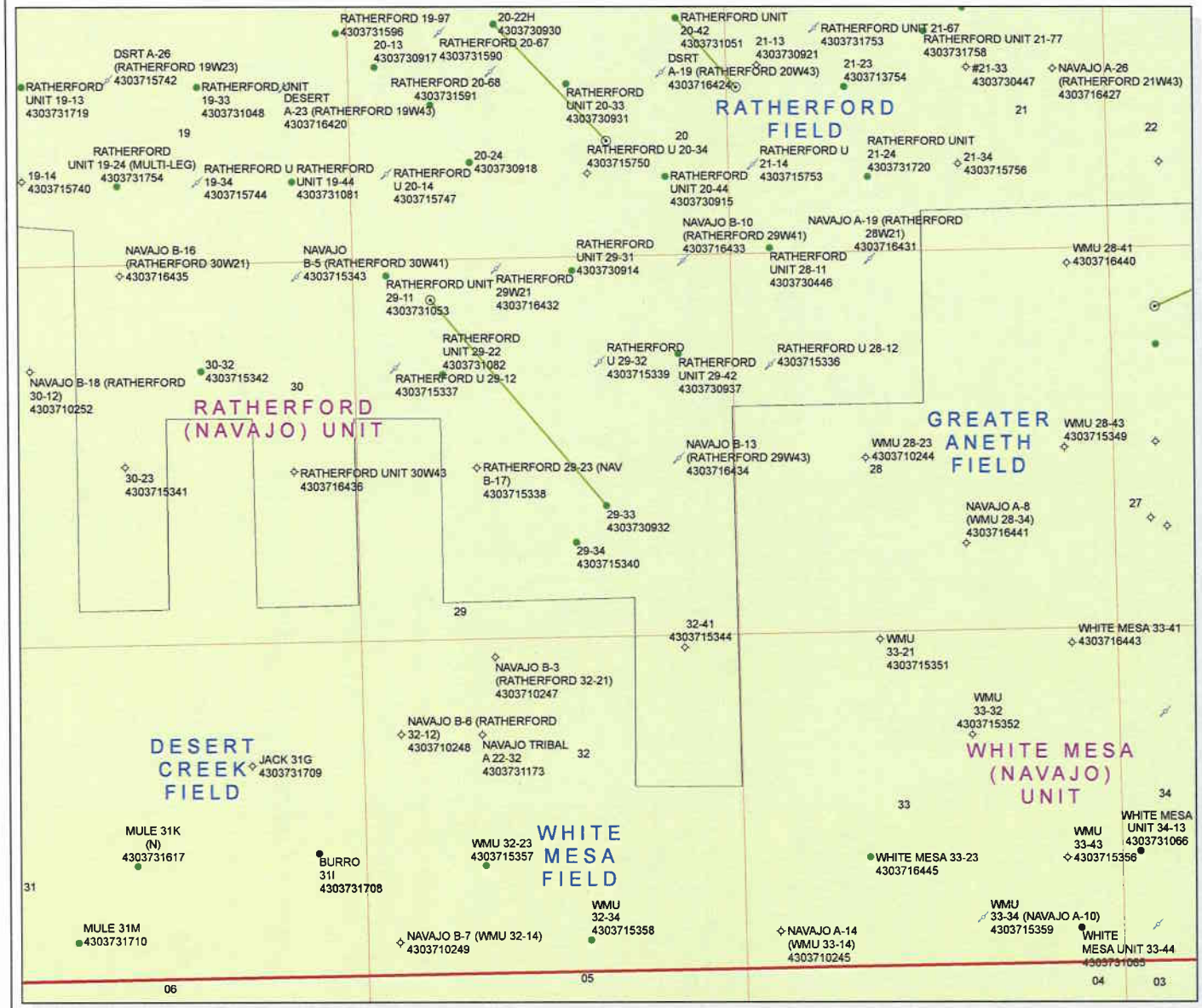
Eff Date: 7-6-1998

Siting: Suspend General Siting

___ R649-3-11. Directional Drill

COMMENTS:

STIPULATIONS: 1- Federal Approval
2- DIRECTIONAL STIP



API Number: 4303730932

Well Name: 29-33

Township T41.0S Range R24.0E Section 29

Meridian: SLBM

Operator: RESOLUTE NATURAL RESOURCES

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields
STATUS
- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED

1,750 875 0 1,750 Feet

1:17,106

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

March 21, 2013

Resolute Natural Resources
1675 Broadway, Ste 1950
Denver, CO 80202

Subject: 29-33 Well, 1859' FSL, 1836' FEL, NW SE, Sec. 29, T. 41 South, R. 24 East, San Juan County, Utah

Ladies and Gentlemen:

Pursuant to Utah Code Ann.§40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause: 152-6. The expected producing formation or pool is the Desert Creek Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-037-30932.

Sincerely,

John Rogers
Associate Director

JR/js
Enclosures

cc: San Juan County Assessor
Bureau of Land Management, Monticello Office

Operator: Resolute Natural Resources

Well Name & Number 29-33

API Number: 43-037-30932

Lease: 14-20-603-407

Location: NW SE **Sec.** 29 **T.** 41 South **R.** 24 East

Conditions of Approval

1. General

   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

   The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

   - Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please let a voicemail message if not available)
     OR
     Submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at http://oilgas.ogm.utah.gov

   Notify the Division prior to commencing operations to plug and abandon the well.

   - Contact Dustin Doucet at (801) 538-5281 office
     (801) 733-0983 after office hours

3. Reporting Requirements

   All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited:

   - Entity Action Form (Form 6) – due within 5 days of spudding the well
   - Monthly Status Report (Form 9) – due by 5th day of the following calendar month
   - Requests to Change Plans (Form 9) – due prior to implementation
   - Written Notice of Emergency Changes (Form 9) – due within 5 days
   - Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
   - Report of Water Encountered (Form 7) – due within 30 days after completion
   - Well Completion Report (Form 8) – due within 30 days after completion or plugging

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-407

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO

7.UNIT or CA AGREEMENT NAME: RATHERFORD

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: 29-33

2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES

9. API NUMBER: 43037309320000

3. ADDRESS OF OPERATOR: 1675 Boradway Ste 1950 , Denver, CO, 80202

PHONE NUMBER: 303 534-4600 Ext

9. FIELD and POOL or WILDCAT: GREATER ANETH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1859 FSL 1836 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 29 Township: 41.0S Range: 24.0E Meridian: S

COUNTY: SAN JUAN

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 8/2/2013	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute proposes a revision to recompletion procedure submitted previously on the subject well. Attached is revised procedure and proposed wellbore diagram

Accepted by the Utah Division of Oil, Gas and Mining

Date: August 09, 2013

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sherry Glass	303 573-4886	Sr Regulatory Technician
SIGNATURE N/A		**DATE** 7/31/2013

RECEIVED: Jul. 31, 2013

RESOLUTE
NATURAL RESOURCES

RU 29-33H Single Lateral Producer - Revision 2 Completion Procedure 7-30-13

Job scope: Sidetrack out of 7" wellbore, drill Lateral #1 ~3850' to the NW, acid stimulate, and run new ESP BHA with new 2-7/8" production tubing.

Procedure

This procedure revision begins after step 20 of the previous procedure below dated 2-11-2013, and includes CTU to perform caustic flush and acid stimulation of the lateral.

1) Perform necessary dirt work to accommodate 24-hour drilling rig.
2) MIRU Drilling Rig. Kill well as necessary.
3) Pull & LD rods & insert pump, inspecting condition.
4) ND WH; NU & test BOPE.
5) Release TAC, POH & LD 2-7/8" production tubing & BHA.
6) PU AOH workstring & RIH with bit/scraper to ~5630' (Top of perforations at 5640'KB.) Reverse circulate clean.
7) POH & LD bit and scraper.
8) RU BlueJet Wireline. Run MTT / 40-Arm Caliper Casing Inspection Log from 5630' to surface. POH & LD MTT.
9) Run RADII Sector Cement Bond Log from 5630' to 1000'.
10) Run & set RBP on wireline, spaced per Baker Hughes rep for KOP at ~ 5455'. Note: *Exact RBP setting depth will be determined from MTT & CBL data; See also Mesa West directional plan with KOP 5454.8' for Leg #1/lower lateral.*
11) RD BlueJet Wireline.
12) PU & RIH with Whipstock/Debris Mgmt Sub/Anchor/Mills.
    Note: *Whipstock will be landed on RBP (Step 10).*
    Note: *Whipstock Slide = 3 degree from vertical.*
    Note: *Window Mills: Starter mill =6-1/8" coarse blade, Dress Mill =6-1/8" fine blade. Production Csg: 7", 23# & 26#, K-55 @ 5800'.*
13) Orient whipstock with gyro.
    Note: *Leg #1 Azimuth ~318.99 degrees; refer to Mesa West final Directional Plan.*
14) Set whipstock anchor.
15) Mill window. Note: *Ensure that dress mill completely exits window.*
16) POH & LD window mills.
17) PU & RIH with 6-1/8" Tri-Cone bit, mud motor, and MWD package on workstring.
18) Drill OH Lateral leg #1 to 9134'MD/TD.
    Note: *Drill OH lateral w/ produced water & N2.*
19) Circulate the lateral clean, POH & LD BHA.
20) Set RBP w/BHP tools below at 5090'; set 2nd RBP @ 623'. Wellbore has 10 ppg brine in lateral, 13.2 mud between RBP's. Released DJ rig #1 on 7-27-13.

RECEIVED: Jul. 31, 2013

21) MIRU daylight rig.
22) Install G-45 wellhead spool for 2-7/8 ESP completion. NOTE: Complete G-45 assembly is currently in stock; no need to purchase new.
23) NU & Test BOPE.
24) Kill well as necessary. Retrieve RBP's at 623' & 5090'. Have the BHP data from the instruments below the bottom RBP sent to Jim Styler (jstyler@ResoluteEnergy.com) and Jason Stewart (jstewart@ResoluteEnergy.com).
25) PU & RIH with 7" packer on the 2-7/8 workstring.
26) Set pkr at 5125' KB, which is 36' above window at 5161.5 - 5169' –- no tailpipe necessary.
27) Test packer & backside to 500 psi & leave this pressure in place.
28) MIRU 1-1/4" CTU, install hard line & choke manifold.
29) Put a jetting/swirl nozzle on the CT, appropriate for washing down the walls of the 6-1/8" diameter lateral to remove the residual lubricant used in drilling the hole.
30) PT the lubricator, BOP's & coil reel to 4500 psi.
31) RIH with coil tubing & nozzle to the end of the lateral at 9134' MD, checking pickup weight at regular intervals on the trip in.
32) Jet/wash the walls of the lateral back to the window using caustic solution, while taking returns to a frac tank at surface. Composition & details of the caustic solution to be determined.
33) Run CTU back to the toe of the lateral and displace the lateral to water to remove any residual caustic solution.
34) RU acid vendor to acidize the lateral with 4650 gals inhibited 20% HCL (110.8 bbls). Max Treating Pressure = 3700 psi on the 2-7/8. Pump 5 bbls fresh water ahead of acid; displace acid with fresh water.
35) With CTU nozzle near the end of the lateral at 9134', and returns shut in, begin acidizing. Pump at maximum rate & pressure allowable on the CT and work the nozzle the full length of the lateral back to the window, then out to the toe again to finish. At ¾ bpm rate, coil should move at 53.7 fpm; at 1 bpm rate, coil should move at 72 fpm to accomplish this.
36) Pump 150 bbls fresh water displacement while pulling the CT back to just above the window (lateral volume w/o CTU in it is 144.6 bbls).
37) POOH & RD CTU. Shut well in for 2 hours, or overnight if practical.
38) RU Global N2 to the workstring. Lift back ~150% of the acid load volume, or until oil or gas handling becomes an issue.
39) Re-kill the well with water. POH & LD treating packer.
40) RIH with retrieving hook & jars. Latch whipstock & release anchor.
41) POH & LD Whipstock/Debris Mgmt Sub/Anchor.
42) Retrieve RBP at the base of the window. Window = 5161.5 to 5169'.
43) PU & RIH with Centinel, ESP assembly, ESP cable, and new 2-7/8" 6.5# J-55 SMLS FBNAU tubing. Include check valve two joints above top of ESP and sliding sleeve w/2.31" X nipple profile 1 joint above the check valve. Include ¼" capillary string to 60' depth. Land bottom of Centinel at ~ 5150'.
44) Perform WH penetrator cable tie-ins at tubing hanger, including 1/4" capillary stinger for chemical injection, and land tubing.
45) ND BOPE, NU WH.
46) RDMO WSU.

RECEIVED: Jul. 31, 2013

47) **Complete electrical tie-ins to VSD and transformer.**
48) **Notify Area Production Supervisor Billison Rentz (970) 779-9273 that the well is ready to return to production.**
49) **Begin appropriate chemical treatment.**

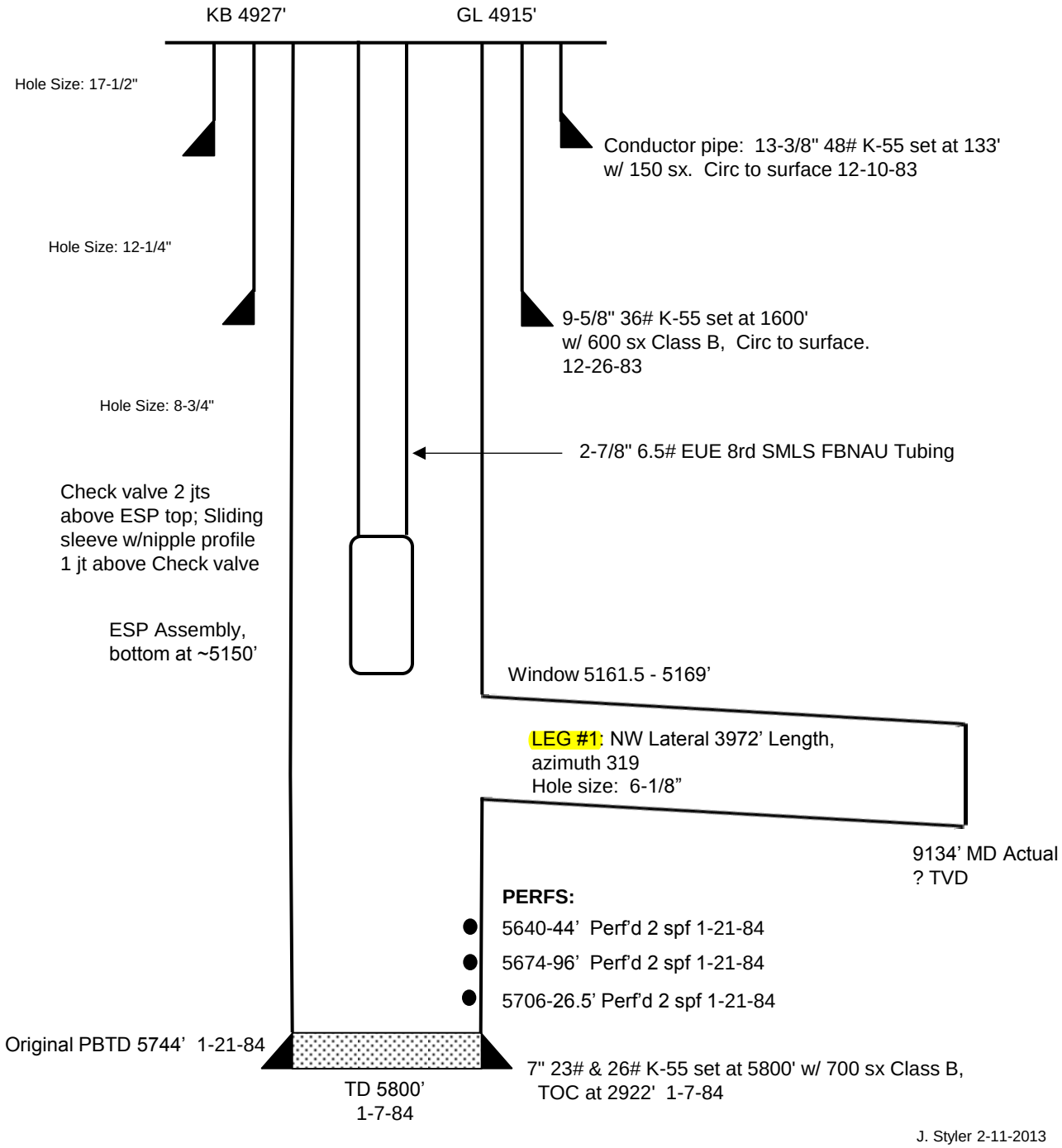
RECEIVED: Jul. 31, 2013

RATHERFORD UNIT # 29-33H

PRODUCER

GREATER ANETH FIELD
1859' FSL & 1836' FEL
SEC 29-T41S-R24E
SAN JUAN COUNTY, UTAH
API 43-037-30932
PRISM 0043140

Attachment 2 - Proposed



J. Styler 2-11-2013

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-407

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7.UNIT or CA AGREEMENT NAME: RATHERFORD

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PHONE NUMBER: 303 534-4600 Ext

9. FIELD and POOL or WILDCAT: GREATER ANETH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1859 FSL 1836 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 29 Township: 41.0S Range: 24.0E Meridian: S

COUNTY: SAN JUAN

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 8/18/2013	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☑ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute completed a single lateral from the vertical wellbore in this well, to better drain the Desert Creek IA and IB. A new ESP BHA was run with new 2-7/8" production tubing. Attachment is daily job log. A completion report was filed 8/27/13. Well was returned to production 8/18/13.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
August 27, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sherry Glass	303 573-4886	Sr Regulatory Technician
SIGNATURE		**DATE**
N/A		8/27/2013

RECEIVED: Aug. 27, 2013

RESOLUTE NATURAL RESOURCES

Daily Activity Report

Well Name: Ratherford U 2933

API Number	Section	Township	Range	Field Name	County	State/Province
43037309320000	29	41S	24E	Ratherford	San Juan	Utah

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
4,911.00		16.90		12/26/1983 00:00	1/28/1984 00:00

Job Category	Primary Job Type	Secondary Job Type
Drilling	Drilling - re-entry	
Start Date	**End Date**	**AFE Number**
6/7/2013	8/18/2013	10013781

Objective

Job scope: Sidetrack out of 7" wellbore, drill Lateral #1 ~3850' to the NW, and Lateral #2 ~1500' to the SE, acid stimulate, and run new rod pumping BHA with new 2-7/8" production tubing.

.

Contractor	Rig Number	Rig Type
Four Corners Well Service	6	Service
D&J	1	Drilling - Double
Key	670	

Report Start Date	Report End Date	Operations Summary
2/8/2013	2/8/2013	United Field Services surveyed the loc. Well survey is complete
6/7/2013	6/7/2013	Load and Haul pit runs for road and blade
6/10/2013	6/10/2013	Load and haul dirt, load and haul pit runs and blade road
6/13/2013	6/13/2013	Test hole, dig out at RU 29-33
6/18/2013	6/18/2013	Bleed off flow line for crew, unload at RU Battery 2
6/19/2013	6/19/2013	Bleed off flow line for crew, unload at MCU area 1 Battery
6/21/2013	6/21/2013	Dig out flow line at location and grag down the road off location, back fill and back drag location
6/25/2013	6/25/2013	Haul 5 loads pf fresh water to 29-33 to water down road and location
6/26/2013	6/26/2013	Haul 8 loads of FW, haul to 29-33 wet down roads to location
6/27/2013	6/27/2013	Move rig from MCU to location, spot in. Fill out jsa, hold tailgate safety meeting. Spot pad and pump. Spot rig on pad. Shut down.

Dur (hrs)	Comment
1.00	Move rig from MCU to location, spot in.
0.50	Fill out jsa, hold tailgate safety meeting.
1.00	Spot pad and pump. Spot rig on pad. Shut down.
1.00	

Report Start Date	Report End Date	Operations Summary
6/28/2013	6/28/2013	JSA, hold tailgate safety meeting on emergency response plan. Set out safety equipment. Have digging permit filled out by B.Rentz, dig and set 2 anchors. Finish spotting equipment. Rig up pulling unit, tighten and flag guy lines. 30 psi on tubing, 120 psi on casing, blow down to pit. Spot empty rod trailer. Unseat pump, lay down polish rod, subs, 75- 7/8, 142- 3/4, 8- 1", 2 subs, pump and gas anchor. Lunch. Pump 20 bbl's down casing, 5 bbl's down tubing. Change blocks over for tubing. NDWH, release tac, nubops. Rig up floor, tongs, hand rails and ladder. Pull 1 jnt, add test pckr, set 20' in hole. Test bop-hydril @200psi low, 1100 psi high, good test. Release and lay down packer. TOOH laying down 160 jnt's of tubing on float. TOOH with 19 jnt's to derrick, lay down bha. Make up rbp, tih with 19 jnt's, set rbp @ 620' KB, J off. Pumped 60 bbl's produced water, hole never filled, casing on vacuum, retag rbp, still in place. Notify D.Trimble of possible hole in casing. Lay down 19 jnt's and retrieving tool. Shut well in.

Dur (hrs)	Comment
1.00	
1.00	Fill out jsa, hold tailgate safety meeting on emergency response plan. Set out safety equipment.
3.00	Have digging permit filled out by B.Rentz, dig and set 2 anchors.
1.50	Finish spotting equipment. Rig up pulling unit, tighten and flag guy lines.
0.50	30 psi on tubing, 120 psi on casing, blow down to pit.
2.50	Spot empty rod trailer. Unseat pump, lay down polish rod, subs, 75- 7/8, 142- 3/4, 8- 1", 2 subs, pump and gas anchor. Lunch.
0.50	Pump 20 bbl's down casing, 5 bbl's down tubing. Change blocks over for tubing.
1.00	NDWH, release tac, nubops. Rig up floor, tongs, hand rails and ladder.
0.50	Pull 1 jnt, add test pckr, set 20' in hole. Test bop-hydril @200psi low, 1100 psi high, good test. Release and lay down packer.
2.00	TOOH laying down 160 jnt's of tubing on float.
0.50	TOOH with 19 jnt's to derrick, lay down bha.
0.50	Make up rbp, tih with 19 jnt's, set rbp @ 620' KB, J off.

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RESOLUTE NATURAL RESOURCES

Daily Activity Report

Well Name: Ratherford U 2933

API Number	Section	Township	Range	Field Name	County	State/Province
43037309320000	29	41S	24E	Ratherford	San Juan	Utah

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
4,911.00		16.90		12/26/1983 00:00	1/28/1984 00:00

Dur (hrs)	Comment
1.00	Pumped 60 bbl's produced water, hole never filled, casing on vacuum, retag rbp, still in place. Notify D.Trimble of possible hole in casing.
0.50	Lay down 19 jnt's and retrieving tool.
0.50	Shut well in.
1.00	

Report Start Date	Report End Date	Operations Summary
6/29/2013	6/29/2013	Fill out jsa, hold tailgate safety meeting on heat, rigging down. RD tongs, hand rails, ladder and floor. ND BOPs, set on rack. MU B-1 flange with tapped bull plug and niddle valve. RD pump and pit. Drop lines, RD PU, MOL. Move equipment off location. Move rig to AU yard. Turn location over to Lansing to prep for D&J rig.

Dur (hrs)	Comment
1.00	
0.50	Fill out jsa, hold tailgate safety meeting on heat, rigging down.
1.00	Rig down tongs, hand rails, ladder and floor. NDBOPs, set on rack.
0.50	Make up b-1 flange with tapped bull plug and niddle valve.
1.00	Rig down pump and pit. Drop lines, rig down pulling unit. Move off location. Move equipment off location.
0.50	Move rig to AU yard.
1.00	

Report Start Date	Report End Date	Operations Summary
6/30/2013	6/30/2013	Haul fresh water to water down the road and location

Report Start Date	Report End Date	Operations Summary
7/2/2013	7/2/2013	Move rig from AU yard to location. JSA, hold tailgate safety meeting on hand protection, proper gloves for the job. Rig up pulling unit, tighten and flag guy lines. Check pressure's, 35 psi on casing, blow down gas. ND B-1 flange. NU BOPS. Spot in ws, pick up pckr and 1 jnt, set 20' in hole. Test bop-hydril 300 psi L, 1000 psi H, good test. Release and lay down pckr. Make up retrieving tool, tally, pick up 20 jnt's, latch onto rbp and release. TOOH with 20 jnt's , lay down rbp. Make up rbp, pckr combo, run 20 jnt's, continue picking up 140 jnt's, 160 jnt's total, set rbp @ 5175', lay down 1jnt, 159 jnt's in hole. Circulate hole with 200 bbl's fresh water, still gassy.

Dur (hrs)	Comment
1.00	
1.00	Move rig from AU yard to location.
1.00	Fill out jsa, hold tailgate safety meeting on hand protection, proper gloves for the job.
1.50	Spot in pad and pump. Spot rig on pad, level out, rig up pulling unit, tighten and flag guy lines.
0.50	Check pressure's, 35 psi on casing, blow down gas.
1.50	ND B-1 flange. NU BOPS, rig up floor, hand rails, ladder and tongs.
1.00	Spot in ws, pick up pckr and 1 jnt, set 20' in hole. Test bop-hydril 300 psi L, 1000 psi H, good test. Release and lay down pckr.
0.50	Make up retrieving tool, tally, pick up 20 jnt's, latch onto rbp and release.
0.50	TOOH with 20 jnt's , lay down rbp.
4.50	Make up rbp, pckr combo, run 20 jnt's, continue picking up 140 jnt's, 160 jnt's total, set rbp @ 5175', lay down 1jnt, 159 jnt's in hole.
2.00	Circulate hole with 200 bbl's fresh water, still gassy.
0.50	SWI.
1.00	

Report Start Date	Report End Date	Operations Summary
7/3/2013	7/3/2013	Fill out jsa, hold tail gate safety meeting on house keeping, clean doghouse, rig floor and cat walks. Check well pressure's, 80 psi on tubing, 0 psi on casing, open to pit, blow down gas. Circulate hole clean with 50bbl's fresh water, no gas coming back. Set packer @5163', test rbp and pckr @530 psi, good test. Test casing from 5163' to surface @520 psi, good test. Witnessed by D.Trimble. Release pckr, leave rbp set @5175', tooh laying down 159 jnt's on float, lay down pckr. Spot in and rig up Blue Jet, hold saety meeting on wire line work, run cil from 5170' to surface, run cbl from 5170' to 1000', rig down logging truck. Have logs sent to D.Trimble. Rig down tongs, ladder, hand rails and floor. NDBOPs, set on rack. Make up B-1 flange with tapped bull plug. Rig down pulling unit. Move rig and equipment to AU yard. Shut down.

Dur (hrs)	Comment
1.00	
0.50	Fill out jsa, hold tail gate safety meeting on house keeping, clean doghouse, rig floor and cat walks.
0.50	Check well pressure's, 80 psi on tubing, 0 psi on casing, open to pit, blow down gas.
0.50	Circulate hole clean with 50bbl's fresh water, no gas coming back.
0.50	Set packer @5163', test rbp and pckr @530 psi, good test. Test casing from 5163' to surface @520 psi, good test. Witnessed by D.Trimble.
2.00	Release pckr, leave rbp set @5175', tooh laying down 159 jnt's on float, lay down pckr.
5.00	Spot in and rig up Blue Jet, hold saety meeting on wire line work, run cil from 5170' to surface, run cbl from 5170' to 1000', rig down logging truck. Have logs sent to D.Trimble.
0.50	Rig down tongs, ladder, hand rails and floor. NDBOPs, set on rack. Make up B-1 flange with tapped bull plug.

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4,911.00		16.90		12/26/1983 00:00	1/28/1984 00:00

Dur (hrs)	Comment
1.00	Rig down pulling unit.
1.00	Move rig and equipment to AU yard. Shut down.
1.00	

Report Start Date	Report End Date	Operations Summary
7/5/2013	7/6/2013	Move rig from AU 317X to RU 29-33H, Spot in and rig up equipment, N/U 7 1/16" BOP stack, Fabricate 6" lines to gas buster with welders, Pressure test BOPE and casing.

Dur (hrs)	Comment
4.00	Move rig from AU 317X to RU 29-33H
8.00	Spot in and rig up all equipment
9.00	N/U 7 1/16" BOP stack, Rig up and pre fab 6" lines to gas buster with welders.
	Test 3 1/2" pipe rams, inner and outer choke valves and blind rams to 250 psi low f/5 min, 3000 psi high f/10 min, test annular to 1500 psi f/10 min, Test casing to 500psi for 30 min.

Report Start Date	Report End Date	Operations Summary
7/6/2013	7/7/2013	Finish R/U gas buster, Pressure test BOPE, Load racks, Strap pipe, RIH 38 jts 3 1/2" HWDP, Stand back 16 stds HWDP, P/U whip stock, Mills, UBHO, TIH 19 stds HWDP, P/U 128 jts 3 1/2" DP, R/U Blue Jet, Orintate whipstock and set @ 5175' tool face @ 319.47*, R/D Blue Jet, P/U & R/U 3.5 power swivel. Start milling window @ 05:00

Dur (hrs)	Comment
1.50	Finish Test 3 1/2" pipe rams, inner and outer choke valves and blind rams to 250 psi low f/5 min, 3000 psi high f/10 min, test annular to 1500 psi f/10 min, Test casing to 500psi for 30 min. All test good
5.00	Finish fabricating gas buster and flow line.
2.50	Lay out and strap 38 jts 3 1/2" HWDP and 126 jts 3 1/2" drill pipe.
2.50	M/U 6 1/8" bit, bit sub, P/U 38 jts 3 1/2" HWDP.
0.50	POOH 19 stds HWDP
7.50	P/U whipstock assembly and orintate to UBHO sub, RIH w/ 18 stds HWDP and P/U 128 jts 3 1/2" DP.
0.50	R/U Blue Jet for for gyro run
1.50	RIH w/ gyro for whipstock orintation Set whipstock @ 5175' and tool face @ 319.47*
0.50	R/D Blue Jet wireline.
1.00	P/U and R/U 3.5 power swivel.
1.00	Start milling window, WOB 1, GPM 173, RPM 60

Report Start Date	Report End Date	Operations Summary
7/7/2013	7/8/2013	Repack swivel, Mill window and 8' rathole, TOOH L/D & Load out mills, P/U and orientate directional tools, TIH, P/U swivel and R/U blue jet wireline.

Dur (hrs)	Comment
1.00	Remove and replace swivel washpipe and upper packing.
12.00	Milled window plus 8' rat hole to 5176', Reamed window until there was no drag up or down,
3.50	Hang back swivel, POOH, lay down and load out mills.
0.50	Safety meeting with rig crew, directional drillers and MWD, prior to picking up tools.
6.50	P/U directional BHA with motor bend @ 1.8*, .56 Rev/gal and orintate same, TIH w/15 stds DP, 19 stds HWDP and 47 stds DP to 5174', P/U swivel.
0.50	R/U Blue Jet for gyro operations

Report Start Date	Report End Date	Operations Summary
7/8/2013	7/9/2013	TIH W/ Gyro and Blue Jet wireline and directional tools, build angle for curve, sliding most of day. Rotated @ 5 AM.

Dur (hrs)	Comment
0.50	R/U Bluejet W/Gyo Data tools to run Gyo to build angle out of casing window.
1.00	P/U Swivel W/ wireline.
22.50	Building Angle in new formation to get out of casing window with Gyro tool in hole, F/5174' T/5430', sliding W/ no rotating until 5 AM rotated first joint, Minimal drag while siding. W/O bit 12K, ROP 20, GPM 187, SPP 1487psi, RPM 0 Sliding, Last Survey @ 5:45 on Depth 5375' INC 25.75, AZ 314.40

Report Start Date	Report End Date	Operations Summary
7/9/2013	7/10/2013	Building curve and angle in 6-1/8" hole section, sliding and rotating, running polymer sweeps. Drilling w/ 8.8 lb produced water, Diff PSI 80 -107, WOB 25-35K, ROP 11'-26' hr, SPP 1400-1560 psi, Drill F/ 5430' to 5740'. Last MWD survey, 5685' INC 57.20, AZ 317.60.

Dur (hrs)	Comment
24.00	BLDNG curve and Angle in 6-1/8" hole section, sliding and rotating, running polymer sweeps, Drilling W/ 8.8lb produced water, Diff PSI 80 -107, WOB25-35K, ROP 11'-26' hr, SPP 1400-1560psi, Drill F/ 5430' to 5740' Last MWD survey, 5685' INC 57.20, AZ 317.60

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4,911.00		16.90		12/26/1983 00:00	1/28/1984 00:00

Report Start Date	Report End Date	Operations Summary
7/10/2013	7/11/2013	Rotating & sliding, building 6-1/8" hole section, building curve F/5740' T/5783'. At 11:00 SPP psi spiked to 2500 psi. While drilling, the psi was staying @ 1500 psi, Smith 6-1/8" tir-cone bit stopped making any more footage. Decided to TOOH, once out of hole the Tri-cone bit was missing one cone and shank, also the gap sub was damaged on the plastic bands. Called Weatherford Fishing to bring out 6-1/8" magnet and junk basket. TIH with magnet and junk basket @ 21:00. Circulate, rotate on btm, TOOH.

Dur (hrs)	Comment
5.00	Rotating & sliding building 6-1/8" hole section building curve, F/5740' T/5783' @ 11:00 SPP psi spiked to 2500 psi it while drilling the psi was staying @ 1500 psi, Smith 6-1/8" tir-cone bit stopped making any more footage. Last MWD Survey Depth: 5735" INC 61.6 AZ 318.5
5.00	TOOH, once out of hole the Tri-cone bit was missing one cone and shank, also the gap sub was damaged on the plastic bands. Called Weatherford Fishing to bring out 6-1/8" magnet and junk basket,
5.00	Waiting on Weatehrford Fisherman with tools to fish bit cone and shank.
3.00	TIH with magnet and junk basket @ 21:00.
1.00	Fishing for 6-1/8" cone and shank, W/ open ended tooth bit, Magnet & junk Basket, Tagged @ 5783' this is current new hole depth, got good circulation, circulated btms up, work joint, circulate on btm turn pump off anf TOOH. Note: did encounter tight spot coming out of hole at 5700', turned pump on and ciclated through tight spot.
5.00	TOOH, Got out of hole and did retrieve fish, looks like all junk is on fish, we will break down fishing BHA, Make up Directional BHA with Smith PDC TIH start curve and lateral.

Report Start Date	Report End Date	Operations Summary
7/11/2013	7/12/2013	Make up 6-1/8" PDC w/directional 1.83 DEG bend motor & MWD tools. TIH, drilled 6-1/8" hole section building curve and angle from 5783' - 5935'. Last MWD survey @ 5834' INC 70.8 AZ 319.4

Dur (hrs)	Comment
2.00	P/U 6-1/8" Smith PDC Bit, Type MDS:613, SN# JG1791, & directional tools 1.83 motor W/ Monels, & MWD tools.
7.00	TIH W/ PDC and Directional tools W/ 1.83 Deg Bend Motor. Including MWD, Broke circulation @ 4000', P/U Singles TIH to window @ 5174', Then rotate and circulate each JNT, Hit tight spot @ 5700' TO 5710' cleaned this section of hole, Then continued to Rotate and circulate to 5780' Circulate 1-1/2 BTMS UP, & Ran Polymer sweeps to make sure we had hole clean of any trash that might me in hole, NOTE: No issues TIH into window, & in open hole only tight spot @ 5700' to 5710' did clean this section out before proceeding to btm.
15.00	Building angle and curve F/5783' T/5935', Sliding & Rotating, Pump Rate 195 GPM, DIFF PSI 85-125, WOB 13-30K, SPP 1350-1550 PSI, RPM 40-50, Sliding and Rotating good W/ Minimal Torque, Last MWD Survey @ 5834' INC 70.8 AZ 319.4

Report Start Date	Report End Date	Operations Summary
7/12/2013	7/13/2013	DRl 6-1/8" hole section Building curve and angel. F/5935' T/6023' .DRl 6-1/8" Lateral hole section F/6023' T/6205', NOTE: @ 6099' Rotation Torque 3,000 to 3,500, P/U WT 90k,Slide WT 80k, Rotation WT 84k, With PDS Super (L) @ 6161' Rotation Torque 2,800, P/U WT 80k, Slide wt 74k, Rotation wt 80k,

Dur (hrs)	Comment
5.50	Sliding and Rotating building 6-1/8" curve F/5935' T/6023', We were having Trouble with hole cleaning, So we build a 35 vis, 8.7 lb, 9.5 PH system. This helped get cutting out of hole, ROP picked up and we were able to get directional tool to be more agressive so we could get close to target landing depth. NOTE: We landed curve 4.32' lower than target depth, @ 6023' INC 91.25 AZ 320.2
18.50	DRLG 6-1/8" Lateral section F/6023' T/6205', W/ 38 VIS, 8.32 LB, 9.5 PH system. We drilled 100' of new hole and did Drag, Torque, RPM, & ROP tests, Then we added the product PDS Super (L) Lubricant from (Binder Science), Still seeing slow drilling. We did see some oil @ 6023' & some natural gas, NOTE: @ 6099' Rotation Torque 3,000 to 3,500, P/U WT 90k,Slide WT 80k, Rotation WT 84k, With PDS Super (L) @ 6161' Rotation Torque 2,800, P/U WT 80k, Slide wt 74k, Rotation wt 80k,

Report Start Date	Report End Date	Operations Summary
7/13/2013	7/14/2013	DRLG 6-1/8" Lateral section F/6205' T/6225', Work on power swivel, POOH to window, Change out power unit and swivel, TIH, DRLG 6-1/8" Lateral section F/6225' T/6266'

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4,911.00		16.90		12/26/1983 00:00	1/28/1984 00:00

Dur (hrs)	Comment
2.00	DRLG 6-1/8" Lateral section F/6205' T/6225', W/ 38 VIS, 8.32 LB, 9.5 PH system. NOTE: @ 6099' Rotation Torque 3,000 to 3,500, P/U WT 90k,Slide WT 80k, Rotation WT 84k, ,
0.50	Service rig, Grease crown, blocks and swivel.
4.00	Motor on power swivel unit went down. Attempt to restart. No success, Wait on mechanic from High Tech rental, trouble shoot, wait on parts from town and or replacement Power swivel unit from Weatherford rental. Circulate and work pipe while waiting on mechanic and replacement power swivel unit.
1.50	Hang back swivel and POOH F/6225' - T/5139'
9.00	Power unit and swivel from Weatherford rental showed up before the parts and second mechanic for High Tech. Rig down High Tech swivel and power unit. Spot in and rig up power unit and swivel from Weatherford rental. Mechanics for High Tech rental worked on there unit on location replacing fuel and oil sensors with no success. A mechanic from Wagner (Catipiller) will be on location tomorrow to trouble shoot problems on High Tech swivel power unit. Note: Monitor well at shale shaker, no losses or gains.
0.50	TIH F/5139' - T/5414', P/U swivel and break circulation.
1.50	Circulate and work pipe @ 5414'
1.00	Continue TIH F/5414' - T/6225', P/U swivel break ciculation, Survey and tag bottom (No fill)
4.00	DRLG 6-1/8" Lateral section F/6225' T/6266', W/ 38 VIS, 8.5 LB, 8.5 PH

Report Start Date	Report End Date	Operations Summary
7/14/2013	7/15/2013	Drlg 6-1/8" lateral section F/6266' T/6721'.

Dur (hrs)	Comment
6.00	DRLG 6-1/8" Lateral section - Rotate F/6266' - T/6369', W/ 36 VIS, 8.6 LB, 7.5 PH,
6.00	DRLG 6-1/8" Lateral section - Rotate F/6369' T/6503', W/ 36 VIS, 8.6 LB, 7.5 PH, WL 8
6.00	DRLG 6-1/8" Lateral section - Rotate F/6503' T/6636', 36 VIS, 8.6 MW, 8.5 PH, WL 9
6.00	DRLG 6-1/8" Lateral section - Rotate F/6636' T/6658', Slide F/6658' T/6668', Rotate F/6668' T/6718', Slide F/6718 - T/6720, VIS, 8.6 MW, 8.5 PH, WL 9, P/U WT 86, SOW 76, ROT WT 80.

Report Start Date	Report End Date	Operations Summary
7/15/2013	7/16/2013	DRLG 6-1/8" Lateral section F/6721' - T/7291'

Dur (hrs)	Comment
6.00	DRLG 6-1/8" Lateral section - Slide F/6720 - T/6723, Rotate F/6723' - T/6780', Slide F/6780' - T/6788', Rotate F/6788' - T/6832', Slide F/6832' - T/6842', VIS 38, 8.9 MW, 8.5 PH, WL 5.5, P/U WT 86, SOW 76, ROT WT 80.
6.00	DRLG 6-1/8" Lateral section - Rotate F/6842' - T/6885', Slide F/6885' - T/ 6894', Rotate F/6894' - T/ 6989', VIS 36, 8.7 MW, 9.5 PH, WL 8, P/U WT 86, SOW 76, ROT WT 80.
6.00	DRLG 6-1/8" Lateral section - Rotate F/6989' - T/7013', Slide F/ 7013' - T/7029', Rotate F/7029' - T/7164', VIS 39, MW 8.8 , PH 9.5, WL 6.4, P/U WT 88, SOW 76, ROT WT 80.
6.00	DRLG 6-1/8" Lateral section - Rotate F/7164' - T/7184', Slide F/7184' - T/7188', Rotate F/7188' - T/7291', VIS 40, MW 8.9 , PH 9.5, WL 6.4, P/U WT 88, SOW 76, ROT WT 80.

Report Start Date	Report End Date	Operations Summary
7/16/2013	7/17/2013	Drlg 6-1/8" Lateral section F/7291' - T/7371'. Well flowing, shut in and monitor pressure build up to 720 psi. SD injector well, bleed down pressure and open rams. Drlg 6-1/8" lateral section F/7371' - T/7706'.

Dur (hrs)	Comment
3.00	DRLG 6-1/8" Lateral section - Rotate F/7291' - T/7308', Slide F/7308' - T/7314', Rotate F/7314 - T/7371', VIS 37, MW 8.9 , PH 9.5, WL 8.5, P/U WT 88, SOW 76, ROT WT 80.
2.00	Well flowing 1" stream, Shut in well pressured up to 720 psi. Notified supervisor and was informed a injection well in the area would be shut down. Bleed down pressure off well bore through choke manifold,opened pipe rams and continued drilling.
6.00	Drlg 6-1/8" Lateral section - Rotate F/7371' - T/7401', Slide F/7401' - T/7406', Rotate F/7406' - T/7464', Slide F/7464' - T/7468', VIS 37, MW 8.8 , PH 9, WL 9, P/U WT 88, SOW 72, ROT WT 83.
6.00	Drlg 6-1/8" Lateral section - Rotate F/7468' - T/7478', Slide F/7478' - T/7485', Rotate F/7485' - T/7567', VIS 37, MW 8.8 , PH 9, WL 9, P/U WT 88, SOW 74, ROT WT 80.
7.00	Drlg 6-1/8" Lateral section - Slide Slide F/7567' - T/7575', Rotate F/7575' - T/7629', Slide F/7629' -T/7639', Rotate F/7639' - T/7692', Slide F/7692' - T/7697', Rotate F/7697' - T/7706', MW 8.9 , PH 9.5, WL 9.8, P/U WT 88, SOW 76, ROT WT 80. Note; Well flowing 11 bbls/hr @ 7619', Start adding Safe Carb to bring up MW

Report Start Date	Report End Date	Operations Summary
7/17/2013	7/18/2013	Drlg 6-1/8" lateral section F/7371' - T/7865'. Circulate, SI well, pressure build up to 600 psi. RU flare stack, circulate. POOH to window, spot 15.6# MW top kill. TOOH, PU new motor, set bend 1.76* bend. PU directional BHA and TIH 1272', circ and test mud motor.

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4,911.00		16.90		12/26/1983 00:00	1/28/1984 00:00

Dur (hrs)	Comment
6.00	Drlg 6-1/8" Lateral section - Rotate F/7706' - T/7783', Slide F/7783' -T/7790', Rotate F/7790' - T/7804', Slide F/7804' - T/7814', Vis 38, MW 9 , PH 9.1, WL 12, P/U WT 88, SOW 76, ROT WT 80.
3.00	Drlg 6-1/8" Lateral section - Rotate F/7814' - T/7834', Slide F/7834' - T/7840', Rotate F/7840' - T/7865', Vis 38, MW 9 , PH 9.1, WL 12, P/U WT 88, SOW 76, ROT WT 80.
2.00	Circulate, pump high vis sweep and work pipe.
3.00	Shut in well, pressure build up to 600 psi, R/U flare stack.
2.00	Circulate gas out of well bore through choke manifold.
1.00	Hang back swivel and TOOH to window.
1.50	Spot 62 bbls 15.6# muud in annulas and 17 bbls in drill pipe.
3.00	TOOH from 5175', lay out motor and bit.
2.50	P/U new motor set bend at 1.76*, P/U directional BHA and TIH to 1272' and test motor.

Report Start Date	Report End Date	Operations Summary
7/18/2013	7/19/2013	M/U 6-1/8" BHA W/1.76 Directional motor, TIH W/ 6-1/8" BHA, P/U Power Swivel, Circulate hole & Get 15.6lb mud out of system, Drlg 6-1/8" Lateral hole section F/7865' T/8073', Note: Flow test 7.5 bbls hour, have a 5' flare.

Dur (hrs)	Comment
2.00	M/U 6-1/8" BHA with 1.76 deg bend motor. With 6-1/8" Reed PDC Bit.
0.50	TIH with 6-1/8" PDC bit and 1.76 Deg motor.
1.50	Break Circulation, Circulate well, Unload 15.6 lbs mud and haul to mud plant in water trucks. Got system back to the 9.0 lb produced water.
1.50	TIH with 6-1/8" PDC bit and 1.76 Deg motor.
2.00	P/U and R/U Power Swivel.
6.00	Drill 6-1/8" Lateral section - Rotate F/7865' T/7930' VIS 38, MW 9lb, PH 9.5, P/U WT 88, SOW 68, ROT WT 82, Note: @ 22;30 We did flow test flow was At 10 gal a min, = 7.5 BBLs and hour, Also flare was out, @ 9:00 we got another Injector well turned off.
6.00	Drill 6-1/8" Lateral section - Rotate F/7930' T/7971' Slide F/7971' T/7979', Rotate F/7979' 8001', Slide F/8001' T/8007', VIS 38, MW 9lb, PH 9.5, P/U WT 88, SOW 68, ROT WT 82, Note: We still have no flare.
4.50	Drill 6-1/8" Lateral section - Rotate F/8007 T/8032', Slide F/8032 T/8039', Rotate F/8039 T/8063', Slide F/8063' T/8073', VIS 38, MW 9lb, PH 9.5, P/U WT 88, SOW 68, ROT WT 82, Note: We still have a 5" Flare, and we having problems building angle down. We will slide a little more agressive.

Report Start Date	Report End Date	Operations Summary
7/19/2013	7/20/2013	DRLG Lateral hole section F/8073' T/8084' sliding and rotating, Circulate, TOOH to replace MWD battery, Spot 80 bbl 11.1lb kill pill, TIH, Circulate 11.1 lbs kill pill out of mud system, TIH while circulating seeing 7.5 bbl flow and gas,

Dur (hrs)	Comment
2.00	Drill 6-1/8" Lateral section - Slide F/8073' T/8075', Rotate F/8075' T/8084', VIS 38, MW 9lb, PH 9.5, P/U WT 88, SOW 68, ROT WT 82, Note: We still have a 5" Flare, and we having problems building angle down. We will slide a little more agressive.
1.00	Circulate condition hole to TOOH to change MWD Battery,
3.00	TOOH To Replace Battery on MWD tool, TOOH to one joint into 7" casing @ 5168',
1.00	Pressure test hole for one hour to get the MW needed to set kill pill in 7" casing, NOTE: one hour the well stabilized at 400 psi shut in psi, and 7.5 bbls hour flow.
3.00	Build 80 bbls of 11.1 lb mud to pump kill pill into 7" casing, Pump 80 bbl 11.1 lb kill pill at 100 strokes per min, for 17 min, btm set @ 5168' top at 2650',
3.00	TOOH and replaced Battery MWD tool.
1.00	Circulate 80 bbl 11.1 lb kill pill out of system.
2.00	Service rig and put new rubber in BOP.
8.00	TIH circulating, Note seeing 7.5 bbl flow and gas.

Report Start Date	Report End Date	Operations Summary
7/20/2013	7/21/2013	TIH, Circulate, Rig Service, Unload hole, Install dual external transducer for MWD tool, Drill 6-1/8" lateral hole section F/8084' T/8275', (Sliding and Rotating) NOTE: We did have to treat mud with ALMN Stearate to shear gas out.

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4,911.00		16.90		12/26/1983 00:00	1/28/1984 00:00

Dur (hrs)	Comment
1.00	TIH T/8084', No Fill, kept hole full of mud, and circulated every 10 stands, NOTE: Mud is estranged with gas,
1.00	P/U power swivel, Ciculate,
2.50	Circulate on bottom, Unload hole, Mud is still very light and bubble with gas,
5.50	MWD Tool is not able to get any readings, the mud is to light with the gas properties, We circulated through choke half way open to shear gas out of mud. Received ALMN Stearate on location treated mud to help get gas out. (These to processes worked well). NOTE: We also installed a Dual External Transducer for MWD TOOL this also corrected issue,
6.00	Drilling 6-1/8" Lateral hole section, Rotate 10' F/8084' T/8094, Re- Log gamma, Slide F/8094' T/8104', Rotate F/8104' T/8151', Slide F/8150' T/8160', Things are looking good! MUD Properties: VIS-37, MW-9.0, PH-9.1, WL20, Drill String TEST: WT-88, SOW-68, ROT WT-82 Note: We are getting a 7.5 bbl hour flow, 7' flare.
6.00	Drilling 6-1/8" Lateral hole section, Rotate 10' F/8160' T/8185', Slide F/8185' T/8195', Rotate F/8195' T/8211', Slide F/8211' T/8219', Rotate F/8219' T/8247', Things are looking good! MUD Properties: VIS-37, MW-9.0, PH-9.1, WL20, Drill String TEST: WT-88, SOW-68, ROT WT-82 Note: We are getting a 7.5 bbl hour flow, 7' flare.
2.00	Drilling 6-1/8" Lateral hole section, Slide F/8247' T/8263', Rotate F/8263' T/8275', Things are looking good! MUD Properties: VIS-37, MW-9.0, PH-9.1, WL20, Drill String TEST: WT-88, SOW-68, ROT WT-82 Note: We are getting a 7.5 bbl hour flow, 7' flare.

Report Start Date	Report End Date	Operations Summary
7/21/2013	7/22/2013	Drilling 6-1/8" lateral section (Sliding & Rotating) F/8275' T/8538. NOTE: We are seeing a 7.5 bbl hour flow, 7 ft flare.

Dur (hrs)	Comment
6.00	Drilling 6-1/8" Lateral hole section, Sliding F/8075' T/8283', Rotate F/8283' T/8308', Slide F/8308' T/8315', Rotate F/8315' T/8339', Slide F/8339' T/8347', MUD Properties: VIS 38, MW 9.0, PH 9.0, WL 28. DLG String Test: WT-90, SOW-70, ROT WT-83. NOTE: We are seeing a 7.5 BBL HR Flow, 7ft flare.
6.00	Drilling 6-1/8" Lateral hole section, Rotate F/8347' T/8397', Slide F/8397' T/8406', Rotate F/8406' T/8417', MUD Properties: VIS 38, MW 9.0, PH 9.0, WL 28. DLG String Test: WT-90, SOW-70, ROT WT-83. NOTE: We are seeing a 7.5 BBL HR Flow, 7ft flare.
6.00	Drilling 6-1/8" Lateral hole section, Rotate F/8417' T/8462, Slide F/8462' T/8470', Rotate F/8470' T/8492', MUD Properties: VIS 38, MW 9.0, PH 9.0, WL 28. DLG String Test: WT-90, SOW-70, ROT WT-83. NOTE: We are seeing a 7.5 BBL HR Flow, 7ft flare.

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4,911.00		16.90		12/26/1983 00:00	1/28/1984 00:00

Dur (hrs)	Comment
6.00	Drilling 6-1/8" Lateral hole section, Slide F/8492' T/8497', Rotate F/8497' T/8512', Slide F/8512', T/8522', Rotate F/8522' T/8538', MUD Properties: VIS 38, MW 9.0, PH 9.0, WL 28. DLG String Test: WT-90, SOW-70, ROT WT-83. NOTE: We are seeing a 7.5 BBL HR Flow, 7ft flare.

Report Start Date	Report End Date	Operations Summary
7/22/2013	7/23/2013	Drilling 6-1/8" lateral section (Sliding & Rotate) F/8538' T/8789', NOTE: We are seeing a 8.5 bbl hour flow, 5ft flare. 2- BOP Drills 60 sec to Muster.

Dur (hrs)	Comment
6.00	Drilling 6-1/8" Lateral hole section, Rotate F/8538' T/8580', Slide F/8580' T/8586', Rotate F/8586', T/8601', MUD Properties: VIS 36, MW 8.9, PH 9.5, WL 27. DLG String Test: WT-115, SOW-40, ROT WT-78. TQ 4200, 4500. NOTE: We are seeing a 8.5 BBL HR Flow, 5ft flare.
6.00	Drilling 6-1/8" Lateral hole section, Slide F/8601' T/8613', Rotate F/8613' T/8652', MUD Properties: VIS 36, MW 8.9, PH 9.5, WL 27. DLG String Test: WT-110, SOW-40, ROT WT-78. TQ 3800, 4200 NOTE: We are seeing a 8.5 BBL HR Flow, 5ft flare.
6.00	Drilling 6-1/8" Lateral hole section, Rotate F/8652' T/8727', MUD Properties: VIS 36, MW 8.9, PH 9.5, WL 27. DLG String Test: WT-98, SOW-50, ROT WT-78. TQ 4000, 4500. NOTE: We are seeing a 8.5 BBL HR Flow, 5ft flare. Drilling 6-1/8" Lateral hole section, Rotate F/8727' T/8732', Slide F/8732' T/ 8737', Slide F/ 8737'. T/ 8789'. MUD Properties: VIS 36, MW 8.9, PH 9.5, WL 27. DLG String Test: WT-110, SOW-50, ROT WT-78. TQ 4000, 4500. NOTE: We are seeing a 8.5 BBL HR Flow, 5ft flare.

Report Start Date	Report End Date	Operations Summary
7/23/2013	7/24/2013	Drilling 6-1/8" Lateral hole section F/8789' - T/8851', Circulate, Back ream out of hole F/8851' - T/7895', Circulate, Wash and ream to bottom F/7895' - T/8851', Drilling 6-1/8" Lateral hole section F/8851' - T/9010'

Dur (hrs)	Comment
7.00	Drilling 6-1/8" Lateral hole section, Rotate F/8789' T/8794', Slide F/8794' T/ 8799', Rotate F/ 8799'. T/ 8851'. MUD Properties: VIS 38, MW 9, PH 9.2, WL 20+. DLG String Test: WT-110, SOW-50, ROT WT-78. TQ 4000, 4500. NOTE: We are seeing a 7.4 BBL HR Flow, 3ft flare.

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4,911.00		16.90		12/26/1983 00:00	1/28/1984 00:00

Dur (hrs)	Comment
1.00	Condition and Circulate mud for 15 stand wiper trip. Note: Having trouble trying to slide
2.00	Back ream out of hole with swivel F/8851' - T/7895' (30 joints). For drag issues while trying to slide.
0.50	Circulate bottoms up to remove gas bubble from wellbore.
3.50	Wash and ream back to bottom F/7895' - T/8851', Ream each joint 2 times.
6.00	Drilling 6-1/8" Lateral hole section, Rotate F/8851' T/8861, Slide F/8861' T/ 8871', Rotate F/ 8871'. T/ 8898'. Slide F/8898' T/8906', Rotate F/8906' T/8961' MUD Properties: VIS 36, MW 8.9, PH 9.5, WL 20+. DLG String Test: WT-110, SOW-45, ROT WT-82. NOTE: We are seeing a 7.4 BBL HR Flow, 3ft flare.
4.00	Drilling 6-1/8" Lateral hole section, Slide F/8961' T/8965', Rotate F/8965' T/8992', Slide F/8992' T/8998', Rotate F/8998' T/9010' MUD Properties: VIS 36, MW 8.9, PH 9.5, WL 20+. DLG String Test: PU WT-110, SOW-50, ROT WT-80. NOTE: We are seeing a 7.4 BBL HR Flow, 3ft flare.

Report Start Date	Report End Date	Operations Summary
7/24/2013	7/25/2013	Drilling 6-1/8" Lateral hole section, F/9010' T/9134' (TD) called by geologist, Circulate, Flow test = 8.4bbls/hr, Shut in well pressured built up to 500 psi, Bleed down well through choke manifold at 74 stks/min (SPR)

Dur (hrs)	Comment
6.00	Drilling 6-1/8" Lateral hole section, Rotate F/9010' T/9036', Slide F/9036' T/9042', Rotate F/9042' T/9068' MUD Properties: VIS 38, MW 8.8, PH 9.5, WL 20+. DLG String Test: PU WT-110, SOW-50, ROT WT-80. NOTE: We are seeing a 7.4 BBL HR Flow, 3ft flare.
6.00	Drilling 6-1/8" Lateral hole section, Slide F/9068' T/9073', Rotate F/9073' T/9083', Slide F/9083' T/9088', Rotate F/9088' T/9107' MUD Properties: VIS 37, MW 8.8, PH 9.5, WL 20+. DLG String Test: PU WT-110, SOW-68, ROT WT-80.
4.50	Drilling 6-1/8" Lateral hole section, Rotate F/9107' T/9115', Slide F/9115' T/9123', Rotate F/9123' T/9134' MUD Properties: VIS 37, MW 8.8, PH 9.5, WL 20+. DLG String Test: PU WT-110, SOW-68, ROT WT-80. Note: TD called by Geologist Jason Burris
1.00	Circulate and condition mud
0.50	Flow check, Well flowing 8.4bbls/hr
4.50	Shut in well for pressure build up. Pressure build to 500 psi
1.50	Circulate bottoms up through choke manifold @ SPR 74 strokes

Report Start Date	Report End Date	Operations Summary
7/25/2013	7/26/2013	Continue circulate bottoms up through choke manifold, Circulate and condition hole,work pipe, Shut in well, Transfer mud from mud pit to frac tanks on location, Fill mud pit with 10# brine. Displace hole with 10.1# brine, Well flowing @ 4bbls/hr, POOH to window, Spot top kill plug 80 bbls @ 13.7#, TOOH and lay down directional BHA, P/U and M/U 7" TS - RBP and 19' - 2 3/8" perf sub with Micro soft memory gauges. TIH w/72 stands drill pipe

Dur (hrs)	Comment
0.50	Continue circulate bottoms up through choke manifold @ SPR 74 strokes
2.50	Circulate and condition hole,work pipe.
5.00	Shut in well, Transfer mud from mud pit to frac tanks on location, Fill mud pit with 10# brine.
2.00	Displace mud with 293 bbls10# brine, circulate through choke manifold. Flow check, well flowing @ 4bbls/hr
4.50	Lay down 10 jts with swivel, Hang back swivel, POOH 15 stands to derrick, lay down 80 jts drill pipe 8 jts HWDP, Chain out and SLM.
1.50	P/U swivel, Spot 90 bbls @ 13.5 # MW, top kill plug F/5199' - T/2847'
5.00	Hang back swivel, L/D HWDP stand back 67 stands.Lay out directional tools.

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4,911.00		16.90		12/26/1983 00:00	1/28/1984 00:00

Dur (hrs)	Comment
1.00	P/U and M/U 7" TS - RBP and 19' - 2 3/8" perf sub with Micro soft memory gauges.
2.00	TIH w/ 72 stands drill pipe, ahd RBP

Report Start Date	Report End Date	Operations Summary
7/26/2013	7/27/2013	Finish TIH w/ RBP and pressure bomb, Set packer at 5090', pressure test 1000 psi, TOOH 10 stds. Lay down 144 jts DP. TIH with RBP #2 set @ 623', load hole w/10# brine. LD 20 jts DP, RD swivel, ND BOPE. Clean mud tanks, RD prep to move to AU H-236A, Rig released @ 06:00 on 7-27-13.

Dur (hrs)	Comment
0.50	Finish TIH w/ RBP and pressure bomb, Set packer at 5090'
4.00	POOH 10 stds to derrick and lay down 144 jts DP
0.50	P/U running tool and 7" TS- Packer
0.50	RIH w/7" TS-Packer set @ 623', Load hole with 10.1# brine
0.50	Lay down 20 joints drill pipe.
2.00	Lay down and load out power swivel.
4.00	N/D BOPE, Clean mud tanks
12.00	R/D prep to move rig F/ RU 2933H - T/ H-236A

Report Start Date	Report End Date	Operations Summary
7/27/2013	7/27/2013	Cleaned up stained dirt

Report Start Date	Report End Date	Operations Summary
7/31/2013	7/31/2013	Rig up, n/u BOP, P/u tbg & retri RBP

Dur (hrs)	Comment
1.00	Capital, completion Raod rig to loc.
0.50	Safety mtg, fill out JSA.
2.50	Spot rig, & rig equip.
1.00	Level rig up pad, rig up.
1.00	N/u hard lines to well, pump, rig pit & frac tank.Chk pres, 0 psi on csg. Spot 2-7/8" wrk/strg trailer.
1.00	N/dn B-1 flange & N/u BOP & rig floor.
0.50	P/u 1 jnt w/ tension Pkr & set 15' below BOP. Pres test BOP, pres test pipe ram @ 200 psi low, good & 1000 psi high, good. pres test Hydril @ 200 psi low, good & 1000 psi high, good, bled pres off. Unset tension Pkr & lay it dn.
3.00	Tally, P/u Retri head & P/u 19 jnts latch on to RBP @ 620' unset RBP, TOOH & lay dn RBP, TBIH w/19 jnts, tally, p/u 141 jnts @ 4,583.43.
0.50	Shut well in, P/u tools.
1.00	Traveled.

Report Start Date	Report End Date	Operations Summary
8/1/2013	8/1/2013	PU tbg, unset RBP, pump kill fluid.

Dur (hrs)	Comment
1.00	Capital, completion. Crew traveled.
0.50	Safety mtg, fill out JSA.
0.50	Chk pres, 0 psi on tbg & csg. open to rig pit.
2.00	Tally & P/u 157 jnts & latch on to RBP @ 5,095', unset RBP, let it set for a while, pres came up to 400 psi, open to frac tank, open tbg & csg to frac tank,got a steady stream flowing. shut csg in & pump 10 bbls of 10# brine dn tbg, pres up to 700 psi, shut pump dn, bled pres off, back dn to steady stream @ 0 psi, shut well in for 10 mins, pressures up to 200 psi.
3.00	Flow back tbg & csg to frac tank @ 0 psi, flowing @ steady stream. Called Ralph to get 100 bbls of 15.2 mud.
4.50	Spot 2 MWS truck,. pump 25 bbls @ 750 psi dn csg, return 12.3 mud pump 40 bbls @ 900 psi return 14.7 mud pump 25 bbls @ 950 psi return 10.5 Csg went on a vac. tbg stil flowing @ 0 psi, steady stream, pump 15 bbls dn tbg, pres up to 400 psi. shut tbg for30 mins, flow back tbg drop dn to zero, still got steady stream. & csg still on a vac. (Pump 80 bbls dn csg & 15 bbls dn tbg).
0.50	Pull 1 std, still flowing.
0.50	Shut well in, P/u tools.
1.00	Traveled.

Report Start Date	Report End Date	Operations Summary
8/2/2013	8/2/2013	Kill well, TOOH, TBIH w/ trt Pkr, N/u CTU

Dur (hrs)	Comment
1.00	Capital, completion. Crew traveled.
0.50	Safety mtg, fill out JSA.
2.50	Chk pres, 400 psi on tbg & 50 psi on csg. Flow tbg back to frac tank steady stream @ 0 psi, fluid & gas.

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Dur (hrs)	Comment
1.00	Pump 5 bbls dn tbg, shut tbg in, Excavation done by Julius C., Dig earth pit, lined & fenced by MWS.Check prfes on tbg, tbg's on a vac.
1.50	TOOH w/ 157 wrk/ strg, lay dn 19' of subs & 17' of BHP data instrument & sent to Jim S.Handle by Tefteller, lay dn RBP.
1.50	P/u 7" treating Pkr (LHM HD) 1-2-7/8 x 2.31 XA sliding sleeve, 1- 4' x 2-7/8 sub, 1- 2-7/8 x 2.25 "R" w/ 2.19 nogo nipple,TIH & set 7" Treating Pkr @ 5,105' w/ KB, above window @ 5,161.5. Open sliding sleeve.
2.00	Circ 15.2 out w/ Fw.(75 bbls of 15.2 mud returned).
0.50	Pres test pkr @ 500 psi for 30 mins, good
1.50	Spot CTU, safety mtg, R/u CTU to tbg & n/u hose to unit.
0.50	Shut well in, P/u tools.
1.00	Traveled.

Report Start Date	Report End Date	Operations Summary
8/3/2013	8/3/2013	RIH w/ CTU, to 7926.

Dur (hrs)	Comment
1.00	Capital, completion. Crew traveled.
0.50	Safety mtg, fill out JSA.
0.50	Chk pres, 1000 psi on tbg & 500 psi on csg. Choke back csg @ 48 psi back to frac tank
10.50	Basic CTU, RIH w/ Vortac- wash nozzle (rotate nozzle), tag @ 5169' @ the window, not going in lateral. POOH, Bend coil tbg to northwest & RBIH, Tight spot from 6440' to 7727' coil tbg pres @ 3000 psi & when hit tight spot, pres up to 9000 psi. got dn to 7900' to 7926', hit tight spot, work it for 2.50 hrs. no luck, update Donnie T. with the well, decide to run a motor w/ a mill. POOH w/ coil.
0.50	Shut well in, P/u tools.
1.00	Traveled.

Report Start Date	Report End Date	Operations Summary
8/4/2013	8/4/2013	No Standby charged on CTU.

Dur (hrs)	Comment

Report Start Date	Report End Date	Operations Summary
8/5/2013	8/5/2013	RIH w/ CTU, mill out to 8247'.

Dur (hrs)	Comment
1.00	Capital, completion. Crew traveled.
0.50	Safety mtg, fill out JSA.
12.50	P/u on CTU, P/u 1.25 coil connector, OD 1.69, 1 motor head assembly, OD 1.69, 1- mud motor, OD 1.69, 1- 3 blade junk mill, OD 1.875, Chk pres, 1000 psi on tbg & 500 psi on csg. Choke back csg @ 48 psi back to frac tank. RIH w/ coil. RIH w/ 3 blade junk mill, Tight spot @ 7582', 12:30- 1:30 pm, mill from 7582' to 8060' = 478' 1:30 - 3:30 pm, mill from 8060' to 8200' = 140 / 70' per hr 3:30 - 4:30 pm, mill friom 8200 to 8212' = 12' per hr 4:30 - 5:30, mill from 8212' to 8232' = 20' 5:30 - 6:30, mill from 8232' to 8247 = 15' Getting returns mud & sand. POOH to surface.
0.50	Shut well in, P/u tools.
1.00	Traveled.

Report Start Date	Report End Date	Operations Summary
8/6/2013	8/6/2013	RIH w/ mill, clean out to 8438', POOH.

Dur (hrs)	Comment
1.00	Capital, completion. Crew traveled.
0.50	Safety mtg, fill out JSA.

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Dur (hrs)	Comment
11.00	Chk pres, 700 psi on tbg & 400 psi on csg. RIH w/ Vortac, wash nizzle (rotate) Tight spot @ 7962 10:00 -11:00 am, mill from 7962' to 8270' = 308' 11:00- 12:00 pm, mill from 8270' to 8291' = 21' 12:00 - 1:00 pm, mill from 8291' to 8318' = 27' 1:00 - 2:00 pm, mill from 8318 to 8376' = 58' 2:00 - 3:00 pm mill from 8376' to 8392' = 16' 3:00 - 4:00 pm, mill from 8392' to 8438, = 46' @ 8438' tight spot. not moving.no luck Getting returns oil & sand. POOH, pull up CTU & lay dn mill & motor, P/u Vortac wash nozzle & M/u to coil,
0.50	Shut well in, P/u tools.
1.00	Traveled.

Report Start Date	Report End Date	Operations Summary
8/7/2013	8/7/2013	TIH w/ CTU, wash lateral w/ 149 bbls caustic, 10.5 ph.

Dur (hrs)	Comment
1.00	Capital, completion. Crew traveled.
0.50	Safety mtg, fill out JSA.
7.00	Chk pres, 450 psi on tbg & 400 psi on csg. RIH w/ Vortac, wash nizzle (rotate) Tag up @ 5375', pull up to 50' & TBIH & tag @ 5372' still no luck, Called DonnieT.said to POOH & bend coil NW-319, start POOH, pull up on CTU & bend coil 319 to NW,TBIH, dn to 8451', Called Ralph to mix Caustic, safety mtg, on MSDS on caustic & handling, Mix caustic, chk PH, got 8-9, Ralph went back to Mud plant to pick up 2 bags of caustic.
1.00	Wait on caustic for an hr.
5.50	Mix caustic and bring PH up to 10.5, start washing (149 bbls of caustic) the wall on the laderal back to the window @ 5175' and back dn to 8451' & flash laderal w/ F/w back to window & POOH.
0.50	Shut well in, P/u tools.
1.00	Traveled.

Report Start Date	Report End Date	Operations Summary
8/8/2013	8/8/2013	RIH w/ coil, pump 4650 gal, 20% HCL acid @ .6 bpm w/ 3410 psi from 9080' back to window, flush w/ 150 bbls of FW. POOH w/ coil, RD Baker Hughes & CTU.

Dur (hrs)	Comment
1.00	Capital, completion. Crew traveled.
0.50	Safety mtg, fill out JSA.
3.50	Chk pres, 560 psi on tbg & 400 psi on csg. RIH w/ Vortac, wash nozzle (rotate) tight spot @ 7885', work it dn to 8090', (the caustic has clean up oil from laderal & coil won't slide).notified Donnie T. and agreed to pump acid.
6.50	Spot Baker Hughes, N/u hradlines. Safety mtg w,/ all contractors on loc..Pres test lines to 5500 psi. Pump 5 bbls of F/w ahead @ .6 bpm w/ 1240 psi, shut in return. Begin pumping 4650 gal, 20% HCL acid @ .6 bpm w/ 3410 psi from 9080' working w/ wash the lateral back to the window @ 53.7 fpm, pump,150 bbls flush @ .6 bpm w/ 3145 psi Shut dn.w/ 973 psi, 15 mins shut in. 5-min 905 psi, 10-min 860 psi, 15-min 837 psi.
1.50	R/dn CTU. & Baker Hughes. P/u tools.
1.00	Traveled.

Report Start Date	Report End Date	Operations Summary
8/9/2013	8/9/2013	Chk pres, 600 psi on tbg & 400 psi on csg. Bled csg off, Flow back tbg to rig pit, got choke set @ .23, (lots of gas).flow back 55 bbls of oil within 4.5 hrs.

Dur (hrs)	Comment
1.00	Capital, completion. Crew traveled.
0.50	Safety mtg, fill out JSA.
8.50	Chk pres, 600 psi on tbg & 400 psi on csg. Bled csg off, Flow back tbg to rig pit, got choke set @ .23, (lots of gas oil).flow back 55 bbls of oil within 4.5 hrs. (well's got lots of gas, had to choke back if flowing back to rig pit, but flowing to frac tank we can open it more. But decide plumb tbg to flow line (satalite-20.). Called Billison R. to set up a crew to plumb line in. plumb hardline from tbg to ground level.(chk pres @ 800 psi) H.T. haul 10 2-7/8 B/B tbg to loc for flow line & run line from well head to end of loc. J.R Const. plumb line in. MWS truck empty out 2- 400 tank, haul fluid to mud plant.
1.00	Traveled.

Report Start Date	Report End Date	Operations Summary
8/12/2013	8/12/2013	TOOH w/ treating pkr, TBIH & retrieve whipstock @ 5,165'. TBIH w/ retrieving head.

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RESOLUTE NATURAL RESOURCES

Daily Activity Report

Well Name: Ratherford U 2933

API Number	Section	Township	Range	Field Name	County	State/Province
43037309320000	29	41S	24E	Ratherford	San Juan	Utah

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
4,911.00		16.90		12/26/1983 00:00	1/28/1984 00:00

Dur (hrs)	Comment
1.00	Capital, completion. (Key Energy had their safety mtg. in Cortez.) Shut tbg in while waiting on crew. Crew traveled.
0.50	Safety mtg, fill out JSA.
0.50	Chk pres, 120 psi on tbg & 0 psi on csg.
1.50	Flow back to frac tank (gas & oil), Pump 25 bbls of 10 # brine dn tbg & 20 bbls dn csg, well's dead.
2.00	Unset treating Pkr, TOOH & lay dn treating Pkr.(pump 10 bbls of 10 # brine every 20 std pull).
1.50	P/u Baker Tools, 1- hook, 1- jar, 1- x-over, float, 1- x-over. TIH w/ 157 jnts, P/u 2 jnts tag & hook on to whip stock(Retri slot @ 5,165').
1.50	Put drill line on tie back, pull up to 65 K & unset whipstock, lay 1 jnt dn & pull next jnt 10', hit tight spot @ 5,160' (csg collar), wrkin it and got it through the tight spot. Put drill line back on double.
1.50	TOOH & lay dn whipstock & tools. (well came around)
1.00	P/u retri head & pump 30 bbls of 10 # dn csg. TIH w/ 40 stds.
0.50	Shut well in, P/u tool.
1.00	Traveled.

Report Start Date	Report End Date	Operations Summary
8/13/2013	8/13/2013	TIH & retrieve RBP, LD wrk/strg, set CIBP @ 5,269' w/ Blue Jet. PU 140 jnts of 2-7/8" FBNAU tbg.

Dur (hrs)	Comment
1.00	Capital, completion. Crew traveled.
0.50	Safety mtg, fill out JSA.
0.50	Chk pres, 350 psi on tbg & 200 psi on csg. Bled tbg & csg to frac tank, pump 15 bbls of 10 # brine dn tbg & pump 20 bbls dn csg.
2.00	TIH & latch on to RBP, unset RBP & well went on vac.notified Donnie T. start laying dn tbg, tbg,s starting to flow, pump 10 # dn tbg & pres up, went ahead and reset RBP and latch off RBP, tbg went on a vac, latch back on to RBP & unset RBP.
0.50	Crew took lunch.
3.00	Lay dn 159 of wrk/strg, spot trailer (2-7/8 FBNAU Tbg).
1.50	Wait 1.5 hr on Blue Jet to set CIBP.
2.00	Spot Blue Jet, safety mtg, R/u wire line, TIH w/ CIBP & set @ 5,269'. POOH, R/dn wire line.
3.00	Count tbg, take thread protectors off, tally tbg, P/u 140 jnts @ 4,485'.
0.50	Shut well in, P/u tools.
1.00	Traveled.

Report Start Date	Report End Date	Operations Summary
8/14/2013	8/14/2013	PU 18 jnts, TOOH w/ 60 jnts, flow well back.

Dur (hrs)	Comment
1.00	Capital, completion. Crew traveled.
0.50	Safety mtg, fill out JSA.
1.00	Chk pres, 260 psi on tbg & 300 psi on csg. Bled tbg & csg to frac tank (gas & oil), pump 15 bbls of 20 # brine dn tbg & pump 30 bbls dn csg. well's dead.
0.50	Take thread protectors off, tally & P/u 18 jnts= 158 jnts of 2-7/8' FBNAU
2.50	TOOH w/ 60 jnts, tbg slip not working properly, called Wes R. and sent hand dn to Key yard, see there's one in yard.continue tripping pipe, pull 1 std, well came around, flowing @ 100 psi. to rig pit.
0.50	Flow well back, pump 25 bbls dn tbg & 60 bbls dn csg, shut well in. (300 psi on tbg & 500 psi on csg.). Notified Donnie T. talk about kill fluid, decide to change to calcium. Called Ralph to get calcium ready by morning.
3.00	N/u tbg to flowline.Called pumper to open line @ satelite.
0.50	Shut well in, P/u tools.
1.00	Traveled.

Report Start Date	Report End Date	Operations Summary
8/15/2013	8/15/2013	TOOH w/ 98 jnts, TBIH w/ sub pump, landed. RD, open sliding sleeve.

Dur (hrs)	Comment
1.00	Capital, completion. Crew traveled.
0.50	Safety mtg, fill out JSA.
1.00	Chk pres, 250 psi on tbg & on csg. Bled tbg & csg to frac tank (gas & oil).
0.50	Pump 5 bbls of calcium carbinate dn tbg & pump 15 bbls dn csg. well's dead.
1.00	TOOH w/ 98 jnts.
1.50	P/u & service sub pump, M/u 1-4' sub to pump & P/u pump-1 & pump-2, P/u gas separator, seal-1 & seaL-2, P/u motor & centinel w/ 4' sub.= 60.21.
0.50	Crew took lunch.

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RESOLUTE NATURAL RESOURCES

Daily Activity Report

Well Name: Ratherford U 2933

API Number	Section	Township	Range	Field Name	County	State/Province
43037309320000	29	41S	24E	Ratherford	San Juan	Utah

Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Well Spud Date/Time	Rig Release Date/Time
4,911.00		16.90		12/26/1983 00:00	1/28/1984 00:00

Dur (hrs)	Comment
4.00	Spot in spooler trailer. TIH w/ 2- jnts, check valve @ 5,027.17, 1-jnt,1 sliding sleeve @ 4,994.27, TIH w/ 155 2-7/8 FBNAU tbg. R/dn spooler, splice lower connector, add capulary string, 60', land tubing.
1.00	R/dn rig floor & BOP.
0.50	Pull up on tbg & replaced o-ring on tbg hanger & reland tbg hanger, N/u master valve & flow-T.
1.00	Rig dn, R/dn part of hard lines back on pump.
1.00	Spot tefteller, safety mtg. R/u Tefteller, Run in, put 600 psi on tbg, open sliding sleeve @ 4,984'. R/dn Tefteller.
1.00	Pump 45 bbls P/w dn tbg to circ calcium out & csg Flowing oil, shut pump dn..100 psi on csg & 120 psi on tbg.
0.50	Shut well in, P/u tools.
1.00	Traveled.

Report Start Date	Report End Date	Operations Summary
8/16/2013	8/16/2013	move off loc. move to MCU P-09

Dur (hrs)	Comment
1.00	Capital, completion. Crew traveled.
0.50	Safety mtg, fill out JSA.
1.50	Chk pres, 80 psi on tbg & on csg. 0pen tro rig pit well's dead, rig crew move to P-09. waiting on F/w, got flow back crew from Lansing, spot MWS truck F/w & pump F/w dn csg and out tbg 60 bbls, start to get calcium back, pump total of 245 bbls of F/w, w/ 100 psi on pump, total return of 236 bbls, starting to clear up after we pump 50 bbls.shut well in.
12.00	5th hand stayed behind to monitor well. Waiting on F/w, got flow back crew from Lansing, spot MWS truck F/w & pump F/w dn csg and out tbg 60 bbls, start to get calcium back, pump total of 245 bbls of F/w, w/ 1000 psi on pump, total return of 236 bbls, starting to clear up after we pump 50 bbls.shut well in.

Report Start Date	Report End Date	Operations Summary
8/17/2013	8/17/2013	Flow back.180 psi on tbg & 200 psi on csg.

Dur (hrs)	Comment
20.00	Flow well back. Chk pres, 180 pon tbg & 200 psi on csg, flow tbg back to Rig pit @ 20 psi in the morning, getting returns w/ 10 % oil & F/w we pump. @ noon, pres came up 40-50 psi, returns w/ 40 % oil & F/w, stil getting sand back. but it's clearing up.

Report Start Date	Report End Date	Operations Summary
8/18/2013	8/18/2013	Chk press,100 psi on tbg & 425 psi on csg, flow back all day. SIP 60 psi on tbg & 400 psi on csg.

Dur (hrs)	Comment
8.00	Flow well back. Chk pres, 100 psi on tbg & 425 psi on csg,open to rig pit, flowing wide open @ 20 psi & got 10 % oil & rest is water. 11:00 am 40 psi on tbg & 380 psi on csg 10 % oil & rest is water, Roustabout & a welder showed uo on loc. Going to do some welding around the well, so had to shut well in, N/dn hard lines from tbg & rig pit.shut in pres @ 60 psi on tbg & 400 psi on csg.

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API Well Number: 43037309320000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: 1420603407
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Shiprock
7. UNIT or CA AGREEMENT NAME: 7960041920
8. WELL NAME and NUMBER: Ratherford 29-33
9. API NUMBER: 4303730932
10 FIELD AND POOL, OR WILDCAT: Greater Aneth

1a TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ DRY ☐ OTHER
b. TYPE OF WORK: NEW WELL ☐ HORIZ. LATS. ☐ DEEP-EN ☑ RE-ENTRY ☐ DIFF RESVR ☐ OTHER
2. NAME OF OPERATOR: Resolute Natural Resources
3. ADDRESS OF OPERATOR: 1675 Broadway, Ste 1950 CITY Denver STATE CO ZIP 80202
PHONE NUMBER: (303) 573-4886
4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 1859 FSL, 1836 FEL
AT TOP PRODUCING INTERVAL REPORTED BELOW: 2234 FSL, 2169 FEL
AT TOTAL DEPTH: 649 FNL, 1035 FWL
Lateral #1 (NW)
11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSE 29 41S 24E S
12. COUNTY: San Juan
13. STATE: UTAH

14. DATE SPUDDED: 6/28/2013
15. DATE T.D. REACHED: 7/27/2013
16. DATE COMPLETED: 8/18/2013 ABANDONED ☐ READY TO PRODUCE ☑
17. ELEVATIONS (DF, RKB, RT, GL): 4915 GL
18. TOTAL DEPTH: MD 9,134 TVD 5,678
19. PLUG BACK T.D.: MD TVD
20. IF MULTIPLE COMPLETIONS, HOW MANY? *
21. DEPTH BRIDGE PLUG SET: MD TVD
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
MD and TVD logs
23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☑ YES ☐ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
17 1/2	13 3/8 K-55	48	0	133		B 150		0 CIR	
12 1/4	9 5/8 K-55	36	0	1,600		B 600		0 CIR	
8 3/4	7 K-55	23 & 26	0	5,800		B 700		2922 CAL	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	5,161							

26. PRODUCING INTERVALS / 27. PERFORATION RECORD

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Lower Ismay	5,606				5,640 5,644			Open ☑ Squeezed ☐
(B) Desert Creek IA	5,674				5,674 5,696			Open ☑ Squeezed ☐
(C) Desert Creek IB	5,703				5,706 5,727			Open ☑ Squeezed ☐
(D)								Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5175 to TD open hole	149 bbls caustic, 5 bbls FW head, 4650 gal 20% HCl acid, 150 bbls F/W flush

29. ENCLOSED ATTACHMENTS:
☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☑ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☑ OTHER: WBD, gas analys

30. WELL STATUS: producing

(5/2000) (CONTINUED ON BACK)

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API Well Number: 43037309320000

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED	TEST DATE	HOURS TESTED	TEST PRODUCTION RATES: →	OIL – BBL	GAS – MCF	WATER – BBL	PROD. METHOD
8/18/2013	8/23/2013	24		413	688	44	pumping

CHOKE SIZE	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL	GAS – MCF	WATER – BBL	INTERVAL STATUS
22/64	160	100	37.80	1,639	1,666		413	688	44	open

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED	TEST DATE	HOURS TESTED	TEST PRODUCTION RATES: →	OIL – BBL	GAS – MCF	WATER – BBL	PROD. METHOD

CHOKE SIZE	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL	GAS – MCF	WATER – BBL	INTERVAL STATUS

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED	TEST DATE	HOURS TESTED	TEST PRODUCTION RATES: →	OIL – BBL	GAS – MCF	WATER – BBL	PROD. METHOD

CHOKE SIZE	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL	GAS – MCF	WATER – BBL	INTERVAL STATUS

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED	TEST DATE	HOURS TESTED	TEST PRODUCTION RATES: →	OIL – BBL	GAS – MCF	WATER – BBL	PROD. METHOD

CHOKE SIZE	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL	GAS – MCF	WATER – BBL	INTERVAL STATUS

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

recycled

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Upper Ismay	5,513				
Lower Ismay	5,606				
Gothic Shale	5,653				
Desert Creek IA	5,674				
Desert Creek IB	5,703				

35. ADDITIONAL REMARKS (Include plugging procedure)

A single lateral was drilled to the NW, ran new ESP BHA with new 2-7/8" production tbg.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Sherry Glass TITLE Sr Regulatory Technician

SIGNATURE Sherry Glass DATE 8/27/2013

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

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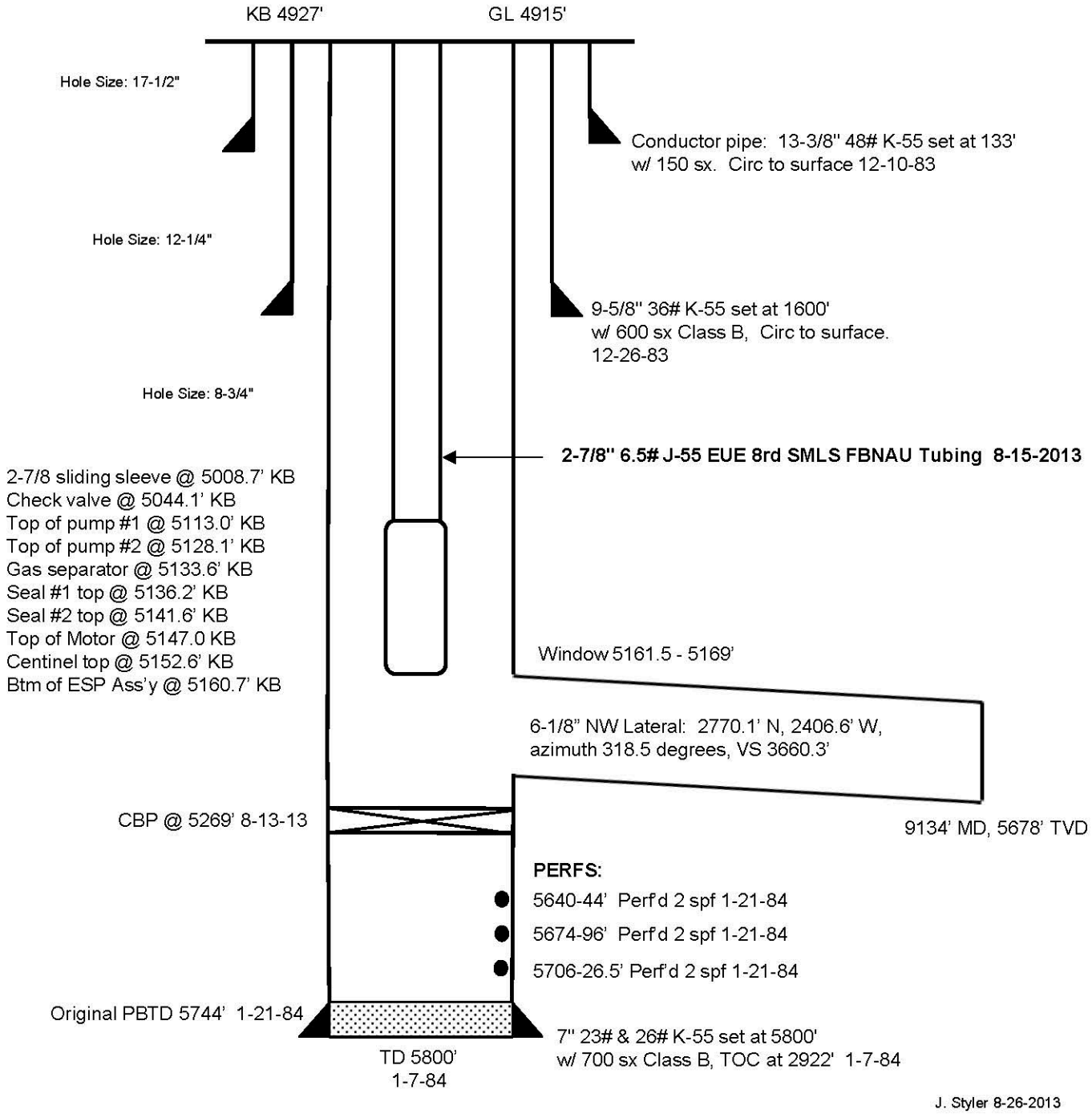
RATHERFORD UNIT # 29-33H

PRODUCER

GREATER ANETH FIELD
1859' FSL & 1836' FEL
SEC 29-T41S-R24E
SAN JUAN COUNTY, UTAH
API 43-037-30932
PRISM 0043140

Final Wellbore 8-15-13



J. Styler 8-26-2013

RECEIVED: Aug. 27, 2013

EMS USA

Diablo Analytical BTU Report
GPA 2145-03 Analysis

Sample Information

	Sample Information
Sample Name	R U 29-33
Station Number	
Method Name	NewNGA#3
Injection Date	8/21/2013 1:48:00 PM
Report Date	08/21/2013 01:51:58 PM
BTU Configuration File	GPA 2145-03 EMS.cfg
Data Source	Cerity data system connection
Instrument	G2801AGC - US10317001
Data Saved To:	R U 29-33-20130821-135158.btu

Component Results

Component Name	Ret. Time	Peak Area	Normalized Mole%	Heating Value (Btu / cu. ft.)	Molar Mass Ratio (G)	GPM (Gal. / 1000 cu. ft.)	
Nitrogen	0.483	9698	1.1783	0.0000	0.0114		
Methane	0.501	319207	50.2712	508.9138	0.2785		
Carbon Dioxide	0.651	13989	1.4242	0.0000	0.0216		
Hydrogen Sulfide	0.000	0	0.0000	0.0000	0.0000		
Ethane	0.724	228499	22.5990	400.8598	0.2346	6.0831	
Propane	1.855	166055	14.7415	371.7838	0.2245	4.0878	
i-Butane	0.360	75375	1.8343	59.7894	0.0368	0.6043	
n-Butane	0.383	187017	4.6498	152.0460	0.0933	1.4764	
i-Pentane	0.460	42673	0.9769	39.1752	0.0243	0.3600	
n-Pentane	0.492	54067	1.2001	48.2197	0.0299	0.4377	
Hexanes Plus	1.424	69423	1.1247	57.8216	0.0362	0.4914	
Total:			100.0000	1638.6093	0.9912	13.5407	

Results Summary

Result	Dry	Sat.	
Total Unnormalized Mole%	98.5536		
Pressure Base (psia)	14.730		
Water Mole%	-	1.7404	
Gross Heating Value (Btu / Ideal cu. ft.)	1638.6093	1610.0911	
Gross Heating Value (Btu / Real cu. ft.)	1650.3373	1622.2415	
Real Relative Density	0.99787	0.99179	
Gas Compressibility (Z) Factor	0.99289	0.99251	

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Resolute Energy Corporation

Resolute Natural Resources

Ratherford Unit (Nad 27)
Ratherford Unit 29-33
29-33H
Hz
UWI:
WL:

Survey: Final

Standard Survey Report

25 July, 2013

MESA WEST DIRECTIONAL

RECEIVED: Aug. 27, 2013

Resolute Energy Corporation

Project: Ratherford Unit (Nad 27)
Site: Ratherford Unit 29-33
Well: 29-33H
Wellbore: Hz
Plan: Final

MESA WEST DIRECTIONAL

Azimuths to Grid North
True North: -1.35°
Magnetic North: 9.04°

Magnetic Field
Strength: 50629.8snT
Dip Angle: 63.52°
Date: 2/1/2013
Model: IGRF2010

Well Centre Reference

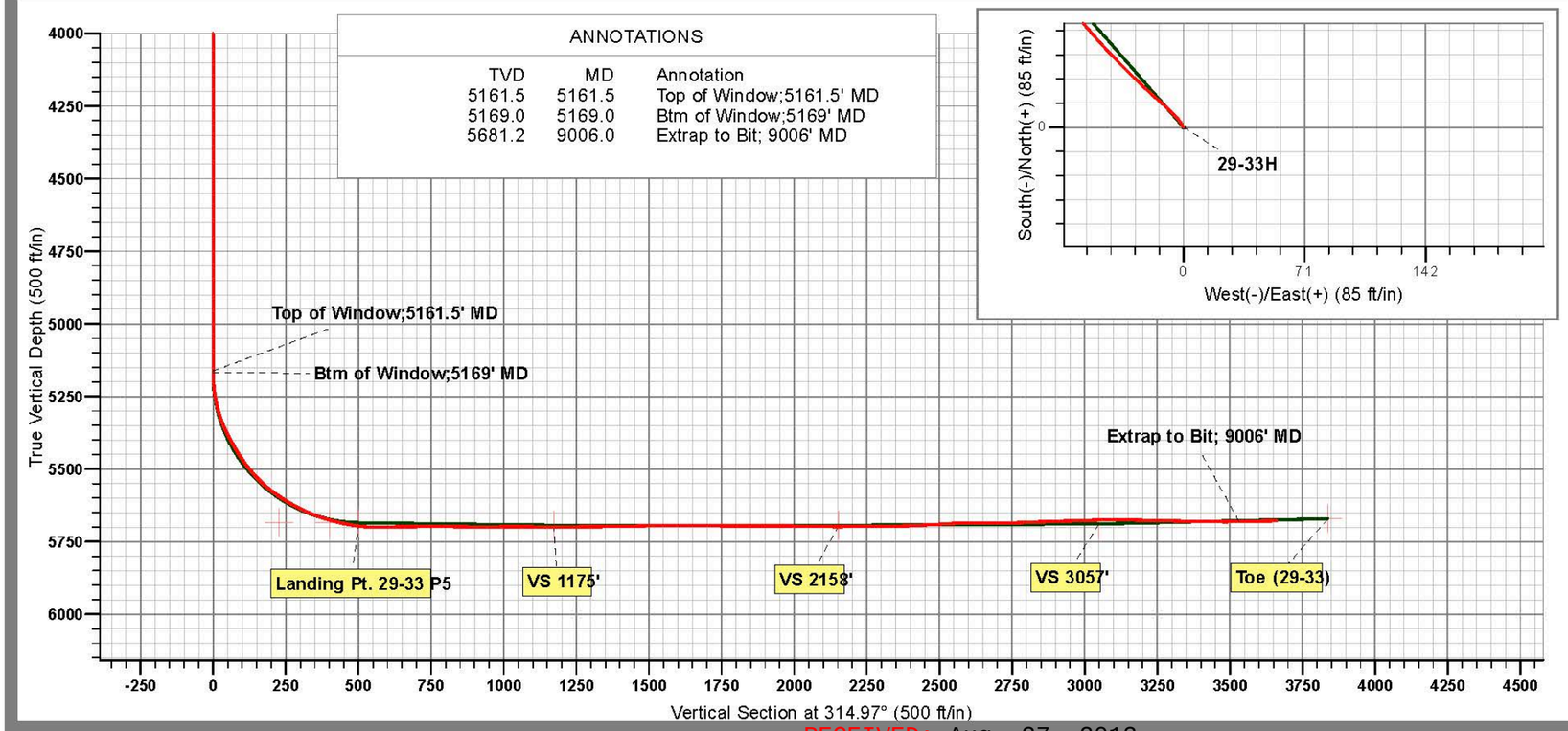
Geodetic System:	US State Plane 1927 (Exact solution)
Ellipsoid:	Clarke 1866
Zone:	Utah South 4303
Northing:	60477.32
Easting:	804772.91
Latitude:	37° 11' 27.348 N
Longitude:	109° 18' 6.120 W
Grid Convergence:	1.35° West
Ground Elevation:	4911.4
KB Elevation:	RKB @ 4927.9ft (D&J 1)

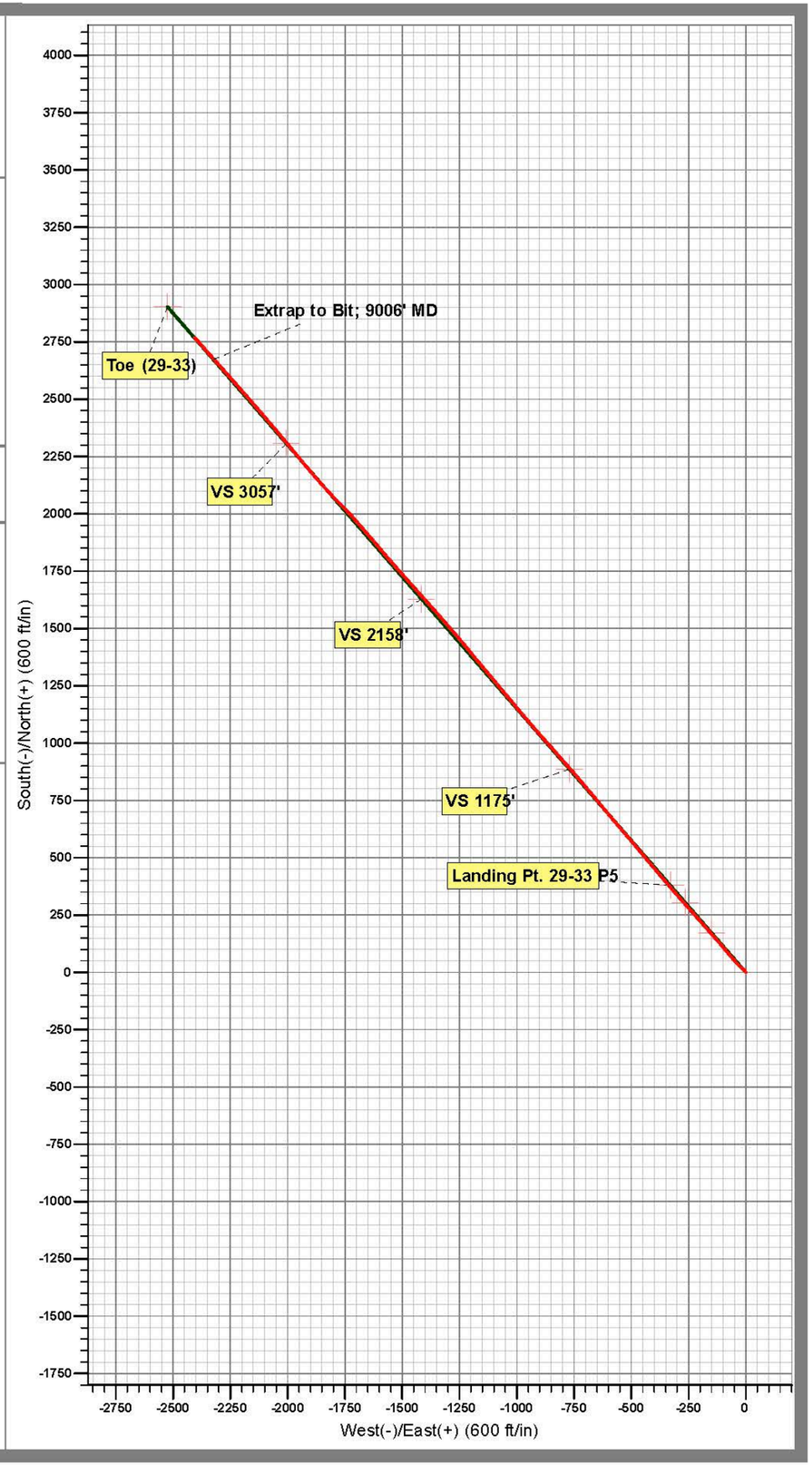
Formation Tops

No formation data is available

PLAN DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5175.0	0.00	0.00	5175.0	0.0	0.0	0.00	0.00	0.0	
3	5969.1	89.21	319.00	5684.9	379.6	-330.0	11.23	319.00	503.0	Landing Pt. 29-33 P5
4	5969.3	89.22	319.00	5684.9	379.8	-330.2	3.00	-14.16	503.2	
5	6615.2	89.22	319.00	5693.7	867.2	-753.8	0.00	0.00	1149.0	
6	6641.1	90.00	318.99	5693.9	886.8	-770.9	3.00	-0.25	1175.0	VS 1175'
7	7624.2	90.00	318.99	5693.9	1628.6	-1415.9	0.00	0.00	2158.0	VS 2158'
8	7634.9	90.32	318.99	5693.9	1636.7	-1422.9	3.00	-0.97	2168.7	
9	8523.2	90.32	318.99	5688.9	2307.0	-2005.8	0.00	0.00	3057.0	VS 3057'
10	8556.7	91.33	318.99	5688.4	2332.3	-2027.8	3.00	0.00	3090.5	
11	9313.4	91.33	318.99	5670.9	2903.1	-2524.2	0.00	0.00	3847.0	Toe (29-33)





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Resolute Energy Corporation

Mesa West Directional
Survey Report

MESA WEST DIRECTIONAL

Company:	Resolute Natural Resources	**Local Co-ordinate Reference:**	Well 29-33H
Project:	Ratherford Unit (Nad 27)	**TVD Reference:**	RKB @ 4927.9ft (D&J 1)
Site:	Ratherford Unit 29-33	**MD Reference:**	RKB @ 4927.9ft (D&J 1)
Well:	29-33H	**North Reference:**	Grid
Wellbore:	Hz	**Survey Calculation Method:**	Minimum Curvature
Design:	Final	**Database:**	EDM 5000.1 Single User Db

Project Ratherford Unit (Nad 27)

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah South 4303		Using geodetic scale factor

Site Ratherford Unit 29-33

Site Position:		**Northing:**	60,477.32 m	**Latitude:**	37° 11' 27.348 N
From:	Lat/Long	**Easting:**	804,772.91 m	**Longitude:**	109° 18' 6.120 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	1.35 °

Well 29-33H

Well Position	**+N/-S**	0.0 ft	**Northing:**	60,477.32 m	**Latitude:**	37° 11' 27.348 N
	+E/-W	0.0 ft	**Easting:**	804,772.91 m	**Longitude:**	109° 18' 6.120 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,911.4 ft

Wellbore Hz

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/1/2013	10.39	63.52	50,630

Design Final

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	314.97

Survey Program **Date** 7/25/2013

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
5,161.5	9,134.0	Final (Hz)	MWD	MWD - Standard

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	Subsea (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	-4,927.9	0.0	0.0	0.0	0.00	0.00	0.00
Top of Window;5161.5' MD										
5,161.5	0.00	0.00	5,161.5	233.6	0.0	0.0	0.0	0.00	0.00	0.00
Btm of Window;5169' MD										
5,169.0	1.90	319.00	5,169.0	241.1	0.1	-0.1	0.1	25.33	25.33	0.00
5,191.0	2.60	327.38	5,191.0	263.1	0.8	-0.6	1.0	3.51	3.18	38.09
5,221.0	6.00	331.00	5,220.9	293.0	2.7	-1.7	3.1	11.36	11.33	12.07
5,251.0	9.20	315.60	5,250.6	322.7	5.8	-4.2	7.1	12.55	10.67	-51.33
5,283.0	13.30	313.50	5,282.0	354.1	10.2	-8.6	13.3	12.87	12.81	-6.56
5,314.0	17.70	311.90	5,311.9	384.0	15.8	-14.7	21.6	14.26	14.19	-5.16

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Site:	Ratherford Unit 29-33	**MD Reference:**	RKB @ 4927.9ft (D&J 1)
Well:	29-33H	**North Reference:**	Grid
Wellbore:	Hz	**Survey Calculation Method:**	Minimum Curvature
Design:	Final	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	Subsea (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,344.0	21.50	312.60	5,340.1	412.2	22.6	-22.2	31.6	12.69	12.67	2.33
5,375.0	25.70	314.40	5,368.5	440.6	31.1	-31.1	44.0	13.74	13.55	5.81
5,406.0	29.10	316.50	5,396.0	468.1	41.3	-41.1	58.3	11.40	10.97	6.77
5,438.0	29.50	318.40	5,424.0	496.1	52.8	-51.7	73.9	3.16	1.25	5.94
5,469.0	31.80	319.90	5,450.6	522.7	64.8	-62.1	89.7	7.82	7.42	4.84
5,499.0	35.90	320.10	5,475.5	547.6	77.6	-72.8	106.3	13.67	13.67	0.67
5,530.0	39.40	320.40	5,500.1	572.2	92.1	-84.9	125.2	11.31	11.29	0.97
5,561.0	42.20	320.30	5,523.5	595.6	107.7	-97.8	145.3	9.03	9.03	-0.32
5,593.0	45.80	319.20	5,546.6	618.7	124.7	-112.2	167.5	11.50	11.25	-3.44
5,624.0	50.80	317.70	5,567.2	639.3	142.0	-127.5	190.6	16.53	16.13	-4.84
5,654.0	55.40	317.60	5,585.2	657.3	159.7	-143.7	214.5	15.34	15.33	-0.33
5,685.0	57.20	318.40	5,602.4	674.5	178.9	-161.0	240.3	6.19	5.81	2.58
Landing Pt. (29-33)										
5,716.0	59.60	318.80	5,618.6	690.7	198.7	-178.4	266.6	7.82	7.74	1.29
5,741.0	61.60	318.60	5,630.9	703.0	215.1	-192.8	288.4	8.03	8.00	-0.80
5,772.0	65.40	318.60	5,644.7	716.8	235.9	-211.1	316.1	12.26	12.26	0.00
5,804.0	69.40	319.40	5,657.0	729.1	258.2	-230.5	345.5	12.71	12.50	2.50
5,834.0	70.80	319.40	5,667.2	739.3	279.6	-248.9	373.6	4.67	4.67	0.00
5,865.0	74.80	319.10	5,676.4	748.5	302.0	-268.2	403.2	12.94	12.90	-0.97
Landing Pt. 29-33 P3										
5,866.4	74.91	319.08	5,676.8	748.9	303.0	-269.1	404.5	7.90	7.74	-1.63
5,896.0	77.20	318.60	5,683.9	756.0	324.6	-288.0	433.2	7.90	7.74	-1.61
5,928.0	79.10	317.70	5,690.5	762.6	348.0	-308.9	464.4	6.54	5.94	-2.81
5,959.0	82.00	318.10	5,695.6	767.7	370.7	-329.4	495.0	9.44	9.35	1.29
Landing Pt. 29-33 P5										
5,965.0	82.79	318.31	5,696.3	768.4	375.1	-333.3	500.9	13.69	13.22	3.57
5,990.0	86.10	319.20	5,698.8	770.9	393.8	-349.7	525.7	13.69	13.23	3.54
6,021.0	90.40	320.10	5,699.7	771.8	417.4	-369.8	556.6	14.17	13.87	2.90
6,053.0	90.80	319.90	5,699.4	771.5	441.9	-390.4	588.5	1.40	1.25	-0.63
6,084.0	90.70	320.00	5,699.0	771.1	465.6	-410.3	619.4	0.46	-0.32	0.32
6,115.0	90.60	319.90	5,698.6	770.7	489.4	-430.3	650.3	0.46	-0.32	-0.32
6,147.0	90.30	320.10	5,698.4	770.5	513.9	-450.8	682.1	1.13	-0.94	0.63
6,178.0	90.30	320.20	5,698.2	770.3	537.7	-470.7	713.0	0.32	0.00	0.32
6,208.0	90.20	320.10	5,698.1	770.2	560.7	-489.9	742.9	0.47	-0.33	-0.33
6,238.0	90.20	319.90	5,698.0	770.1	583.7	-509.2	772.8	0.67	0.00	-0.67
6,269.0	89.40	319.20	5,698.1	770.2	607.3	-529.3	803.7	3.43	-2.58	-2.26
6,301.0	89.60	319.30	5,698.4	770.5	631.5	-550.2	835.6	0.70	0.63	0.31
6,332.0	89.30	319.20	5,698.7	770.8	655.0	-570.4	866.5	1.02	-0.97	-0.32
6,364.0	88.90	319.70	5,699.2	771.3	679.3	-591.2	898.4	2.00	-1.25	1.56
6,395.0	89.60	321.00	5,699.6	771.7	703.2	-611.0	929.2	4.76	2.26	4.19
6,426.0	91.00	320.60	5,699.4	771.5	727.2	-630.6	960.1	4.70	4.52	-1.29
6,457.0	90.60	319.70	5,699.0	771.1	751.0	-650.5	991.0	3.18	-1.29	-2.90
6,489.0	90.70	320.20	5,698.6	770.7	775.5	-671.1	1,022.8	1.59	0.31	1.56
6,519.0	89.60	319.90	5,698.5	770.6	798.5	-690.3	1,052.7	3.80	-3.67	-1.00

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Mesa West Directional
Survey Report

MESA WEST DIRECTIONAL

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Project:	Ratherford Unit (Nad 27)	**TVD Reference:**	RKB @ 4927.9ft (D&J 1)
Site:	Ratherford Unit 29-33	**MD Reference:**	RKB @ 4927.9ft (D&J 1)
Well:	29-33H	**North Reference:**	Grid
Wellbore:	Hz	**Survey Calculation Method:**	Minimum Curvature
Design:	Final	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	Subsea (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,550.0	89.70	319.80	5,698.7	770.8	822.2	-710.3	1,083.6	0.46	0.32	-0.32
6,581.0	89.50	319.10	5,698.9	771.0	845.8	-730.5	1,114.5	2.35	-0.65	-2.26
6,612.0	89.50	319.00	5,699.2	771.3	869.2	-750.8	1,145.4	0.32	0.00	-0.32
VS 1175'										
6,638.4	89.41	318.82	5,699.5	771.6	889.1	-768.1	1,171.8	0.75	-0.33	-0.67
6,642.0	89.40	318.80	5,699.5	771.6	891.8	-770.5	1,175.4	0.75	-0.33	-0.67
6,672.0	90.70	318.60	5,699.5	771.6	914.3	-790.3	1,205.3	4.38	4.33	-0.67
6,702.0	90.80	318.40	5,699.1	771.2	936.8	-810.2	1,235.2	0.75	0.33	-0.67
6,734.0	90.70	319.60	5,698.7	770.8	960.9	-831.2	1,267.1	3.76	-0.31	3.75
6,765.0	90.30	318.40	5,698.4	770.5	984.3	-851.5	1,298.1	4.08	-1.29	-3.87
6,796.0	89.60	318.10	5,698.4	770.5	1,007.4	-872.1	1,329.0	2.46	-2.26	-0.97
6,827.0	90.40	318.30	5,698.4	770.5	1,030.6	-892.8	1,360.0	2.66	2.58	0.65
6,858.0	91.80	317.80	5,697.8	769.9	1,053.6	-913.5	1,390.9	4.80	4.52	-1.61
6,889.0	91.70	319.30	5,696.9	769.0	1,076.8	-934.0	1,421.8	4.85	-0.32	4.84
6,921.0	91.00	319.90	5,696.1	768.2	1,101.2	-954.8	1,453.7	2.88	-2.19	1.88
6,952.0	91.20	320.50	5,695.5	767.6	1,125.0	-974.6	1,484.6	2.04	0.65	1.94
6,983.0	90.90	320.00	5,695.0	767.1	1,148.8	-994.4	1,515.5	1.88	-0.97	-1.61
7,014.0	90.20	319.80	5,694.7	766.8	1,172.5	-1,014.4	1,546.3	2.35	-2.26	-0.65
7,045.0	89.90	319.50	5,694.6	766.7	1,196.2	-1,034.5	1,577.2	1.37	-0.97	-0.97
7,076.0	89.80	319.70	5,694.7	766.8	1,219.8	-1,054.6	1,608.1	0.72	-0.32	0.65
7,107.0	89.70	319.90	5,694.8	766.9	1,243.5	-1,074.6	1,639.0	0.72	-0.32	0.65
7,138.0	89.80	320.20	5,695.0	767.1	1,267.2	-1,094.5	1,669.9	1.02	0.32	0.97
7,170.0	89.70	320.20	5,695.1	767.2	1,291.8	-1,115.0	1,701.8	0.31	-0.31	0.00
7,199.0	89.30	319.80	5,695.4	767.5	1,314.0	-1,133.6	1,730.6	1.95	-1.38	-1.38
7,231.0	89.60	319.90	5,695.7	767.8	1,338.5	-1,154.2	1,762.5	0.99	0.94	0.31
7,262.0	89.90	320.20	5,695.8	767.9	1,362.2	-1,174.1	1,793.4	1.37	0.97	0.97
7,293.0	90.60	320.90	5,695.7	767.8	1,386.2	-1,193.8	1,824.3	3.19	2.26	2.26
7,325.0	89.80	320.10	5,695.6	767.7	1,410.9	-1,214.2	1,856.1	3.54	-2.50	-2.50
7,355.0	89.90	319.50	5,695.6	767.7	1,433.8	-1,233.5	1,886.0	2.03	0.33	-2.00
7,387.0	90.00	319.80	5,695.7	767.8	1,458.2	-1,254.3	1,917.9	0.99	0.31	0.94
7,418.0	90.00	319.60	5,695.7	767.8	1,481.8	-1,274.3	1,948.8	0.65	0.00	-0.65
7,448.0	89.70	319.00	5,695.8	767.9	1,504.6	-1,293.9	1,978.7	2.24	-1.00	-2.00
7,479.0	89.00	318.70	5,696.1	768.2	1,527.9	-1,314.3	2,009.6	2.46	-2.26	-0.97
7,511.0	88.70	318.60	5,696.7	768.8	1,551.9	-1,335.4	2,041.6	0.99	-0.94	-0.31
7,542.0	88.70	319.10	5,697.4	769.5	1,575.3	-1,355.8	2,072.5	1.61	0.00	1.61
7,573.0	89.50	318.60	5,697.9	770.0	1,598.6	-1,376.2	2,103.4	3.04	2.58	-1.61
7,605.0	89.50	319.00	5,698.2	770.3	1,622.7	-1,397.3	2,135.3	1.25	0.00	1.25
VS 2158'										
7,621.7	90.09	318.62	5,698.3	770.4	1,635.3	-1,408.3	2,152.0	4.21	3.55	-2.26
7,636.0	90.60	318.30	5,698.2	770.3	1,645.9	-1,417.8	2,166.3	4.21	3.55	-2.26
7,667.0	90.60	317.70	5,697.9	770.0	1,669.0	-1,438.5	2,197.2	1.94	0.00	-1.94
7,696.0	90.30	317.40	5,697.6	769.7	1,690.4	-1,458.1	2,226.2	1.46	-1.03	-1.03
7,727.0	90.30	317.30	5,697.5	769.6	1,713.2	-1,479.1	2,257.2	0.32	0.00	-0.32

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Design:	Final	**Database:**	EDM 5000.1 Single User Db

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7,758.0	90.70	317.70	5,697.2	769.3	1,736.0	-1,500.0	2,288.1	1.82	1.29	1.29
7,788.0	90.20	318.40	5,697.0	769.1	1,758.3	-1,520.1	2,318.1	2.87	-1.67	2.33
7,819.0	91.50	319.50	5,696.5	768.6	1,781.7	-1,540.4	2,349.0	5.49	4.19	3.55
7,854.0	91.70	319.70	5,695.5	767.6	1,808.4	-1,563.1	2,383.9	0.81	0.57	0.57
7,884.0	91.90	319.30	5,694.6	766.7	1,831.2	-1,582.6	2,413.8	1.49	0.67	-1.33
7,915.0	92.50	319.70	5,693.4	765.5	1,854.7	-1,602.7	2,444.7	2.33	1.94	1.29
7,945.0	93.50	319.80	5,691.8	763.9	1,877.6	-1,622.1	2,474.5	3.35	3.33	0.33
7,976.0	93.20	319.10	5,690.0	762.1	1,901.1	-1,642.2	2,505.4	2.45	-0.97	-2.26
8,007.0	93.20	319.10	5,688.3	760.4	1,924.5	-1,662.4	2,536.2	0.00	0.00	0.00
8,038.0	92.50	318.80	5,686.7	758.8	1,947.8	-1,682.8	2,567.1	2.46	-2.26	-0.97
8,064.0	91.60	318.50	5,685.8	757.9	1,967.3	-1,699.9	2,593.0	3.65	-3.46	-1.15
8,095.0	90.00	318.00	5,685.4	757.5	1,990.5	-1,720.6	2,624.0	5.41	-5.16	-1.61
8,125.0	89.20	317.10	5,685.6	757.7	2,012.6	-1,740.8	2,654.0	4.01	-2.67	-3.00
8,156.0	89.30	315.00	5,686.0	758.1	2,034.9	-1,762.3	2,684.9	6.78	0.32	-6.77
8,188.0	91.00	315.50	5,685.9	758.0	2,057.6	-1,784.9	2,716.9	5.54	5.31	1.56
8,218.0	91.80	316.60	5,685.2	757.3	2,079.2	-1,805.7	2,746.9	4.53	2.67	3.67
8,248.0	91.70	317.00	5,684.3	756.4	2,101.1	-1,826.2	2,776.9	1.37	-0.33	1.33
8,279.0	91.40	318.00	5,683.4	755.5	2,123.9	-1,847.1	2,807.9	3.37	-0.97	3.23
8,311.0	92.10	318.00	5,682.4	754.5	2,147.7	-1,868.5	2,839.8	2.19	2.19	0.00
8,342.0	91.90	319.50	5,681.4	753.5	2,171.0	-1,889.0	2,870.7	4.88	-0.65	4.84
8,372.0	92.20	319.80	5,680.3	752.4	2,193.9	-1,908.4	2,900.6	1.41	1.00	1.00
8,402.0	91.60	320.40	5,679.3	751.4	2,216.9	-1,927.6	2,930.5	2.83	-2.00	2.00
8,432.0	91.40	320.40	5,678.5	750.6	2,240.0	-1,946.7	2,960.3	0.67	-0.67	0.00
8,462.0	92.20	319.90	5,677.6	749.7	2,263.0	-1,965.9	2,990.2	3.14	2.67	-1.67
8,493.0	92.30	319.90	5,676.4	748.5	2,286.7	-1,985.9	3,021.0	0.32	0.32	0.00
VS 3057'										
8,521.0	90.72	320.43	5,675.6	747.7	2,308.2	-2,003.8	3,048.9	5.93	-5.62	1.88
8,525.0	90.50	320.50	5,675.6	747.7	2,311.3	-2,006.4	3,052.9	5.93	-5.63	1.87
8,556.0	90.90	320.50	5,675.2	747.3	2,335.2	-2,026.1	3,083.7	1.29	1.29	0.00
8,588.0	90.70	320.30	5,674.7	746.8	2,359.8	-2,046.5	3,115.6	0.88	-0.63	-0.63
8,619.0	88.10	319.90	5,675.1	747.2	2,383.6	-2,066.4	3,146.5	8.49	-8.39	-1.29
8,650.0	88.60	319.60	5,676.0	748.1	2,407.3	-2,086.4	3,177.3	1.88	1.61	-0.97
8,682.0	89.20	319.30	5,676.6	748.7	2,431.6	-2,107.2	3,209.2	2.10	1.88	-0.94
8,714.0	89.30	319.10	5,677.0	749.1	2,455.8	-2,128.1	3,241.2	0.70	0.31	-0.63
8,744.0	88.50	319.20	5,677.6	749.7	2,478.5	-2,147.7	3,271.1	2.69	-2.67	0.33
8,775.0	87.80	318.40	5,678.6	750.7	2,501.8	-2,168.1	3,302.0	3.43	-2.26	-2.58
8,806.0	88.20	318.30	5,679.7	751.8	2,524.9	-2,188.7	3,332.9	1.33	1.29	-0.32
8,838.0	89.10	318.40	5,680.4	752.5	2,548.8	-2,210.0	3,364.8	2.83	2.81	0.31
8,869.0	90.00	318.40	5,680.7	752.8	2,572.0	-2,230.6	3,395.8	2.90	2.90	0.00
8,901.0	89.10	317.90	5,680.9	753.0	2,595.9	-2,251.9	3,427.7	3.22	-2.81	-1.56
8,932.0	89.10	317.90	5,681.4	753.5	2,618.9	-2,272.7	3,458.7	0.00	0.00	0.00
8,961.0	90.50	318.30	5,681.5	753.6	2,640.4	-2,292.0	3,487.6	5.02	4.83	1.38
8,991.0	90.70	318.50	5,681.2	753.3	2,662.9	-2,312.0	3,517.6	0.94	0.67	0.67
Extrap to Bit; 9006' MD										

RECEIVED: Aug. 27, 2013

Resolute Energy Corporation

Mesa West Directional
Survey Report

MESA WEST DIRECTIONAL

Company:	Resolute Natural Resources	**Local Co-ordinate Reference:**	Well 29-33H
Project:	Ratherford Unit (Nad 27)	**TVD Reference:**	RKB @ 4927.9ft (D&J 1)
Site:	Ratherford Unit 29-33	**MD Reference:**	RKB @ 4927.9ft (D&J 1)
Well:	29-33H	**North Reference:**	Grid
Wellbore:	Hz	**Survey Calculation Method:**	Minimum Curvature
Design:	Final	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	Subsea (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,006.0	90.89	318.59	5,681.0	753.1	2,674.1	-2,321.9	3,532.6	1.40	1.25	0.62
9,023.0	91.10	318.70	5,680.7	752.8	2,686.9	-2,333.1	3,549.5	1.40	1.25	0.63
9,055.0	91.50	318.60	5,679.9	752.0	2,710.9	-2,354.3	3,581.4	1.29	1.25	-0.31
9,086.0	91.20	318.50	5,679.2	751.3	2,734.1	-2,374.8	3,612.4	1.02	-0.97	-0.32
9,089.0	91.20	318.50	5,679.2	751.3	2,736.4	-2,376.8	3,615.4	0.00	0.00	0.00
Toe (29-33)										
9,134.0	90.70	318.50	5,678.4	750.5	2,770.1	-2,406.6	3,660.3	1.11	-1.11	0.00

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
5,161.5	5,161.5	0.0	0.0	Top of Window;5161.5' MD
5,169.0	5,169.0	0.1	-0.1	Btm of Window;5169' MD
9,006.0	5,681.2	2,674.2	-2,321.8	Extrap to Bit; 9006' MD

Checked By: _____ Approved By: _____ Date: _____

RECEIVED: Aug. 27, 2013

Measured Depth Log 5"=100ft Feet

Mezintel

Oil Co: Resolute Natural Resources
Well Name: RU 29-33H
LSD: SEC S29-T41S-R24E
State/Prov: UT
Country: USA
Job #: MWDTECH1318

Oil Company:	Resolute Natural Resources
Well Name:	RU 29-33H
LSD:	SEC S29-T41S-R24E
State/Prov:	UT
Country:	USA
Job #:	MWDTECH1318
Drilling Co.	D & J Drilling
Rig #:	D & J 1
Co Rep 1:	Dee Gillis
Co Rep 2:	Art Velasquez
Geologist 1:	
Geologist 2:	
DD 1:	David Westbrook
DD 2:	Shane Sloigar
MWD 1:	Ron Alexus
MWD 2:	Chuck Tripp
MWD Kit:	P105

Well Lic:
API/UWI: 43-037-30932
AFE #: 10013781

Casing Depths	MD Depth	Date	
Surface:	Start: 8500	7/6/13	KB 4927.90
Intermediate:	End: 9134.04		GL: 4911.4
			DF: 16.50

Run #	Hole Size (in)	Gamma Offset	Survey Offset	Depth Start	Depth End	Date Start	Date End
01	6 1/4	38.00	45.00	5176.00	5783.00	Jul 06, 13	Jul 10, 13
02	6 1/4	40.00	46.00	5783.00	7865.00	Jul 10, 13	Jul 17, 13
03	6 1/4	40.30	46.00	7865.00	8076.00	Jul 17, 13	Jul 19, 13
04	6 1/4	38.10	45.00	8076.00	9134.80	Jul 24, 13	Jul 24, 13

API well Number: 43037309320000

Client: Resolute Natural Resources
Well Name: RU 29-33H
Well Lic:
API/UWI: 43-037-30932
Surface LSD: SEC S29-T41S-R24E
State/Prov: UT
Country: USA

Mezintel

KB: 4927.90
GL: 4911.4
Job #: MWDTECH1318
DF: 16.50
MWD Kit: P105

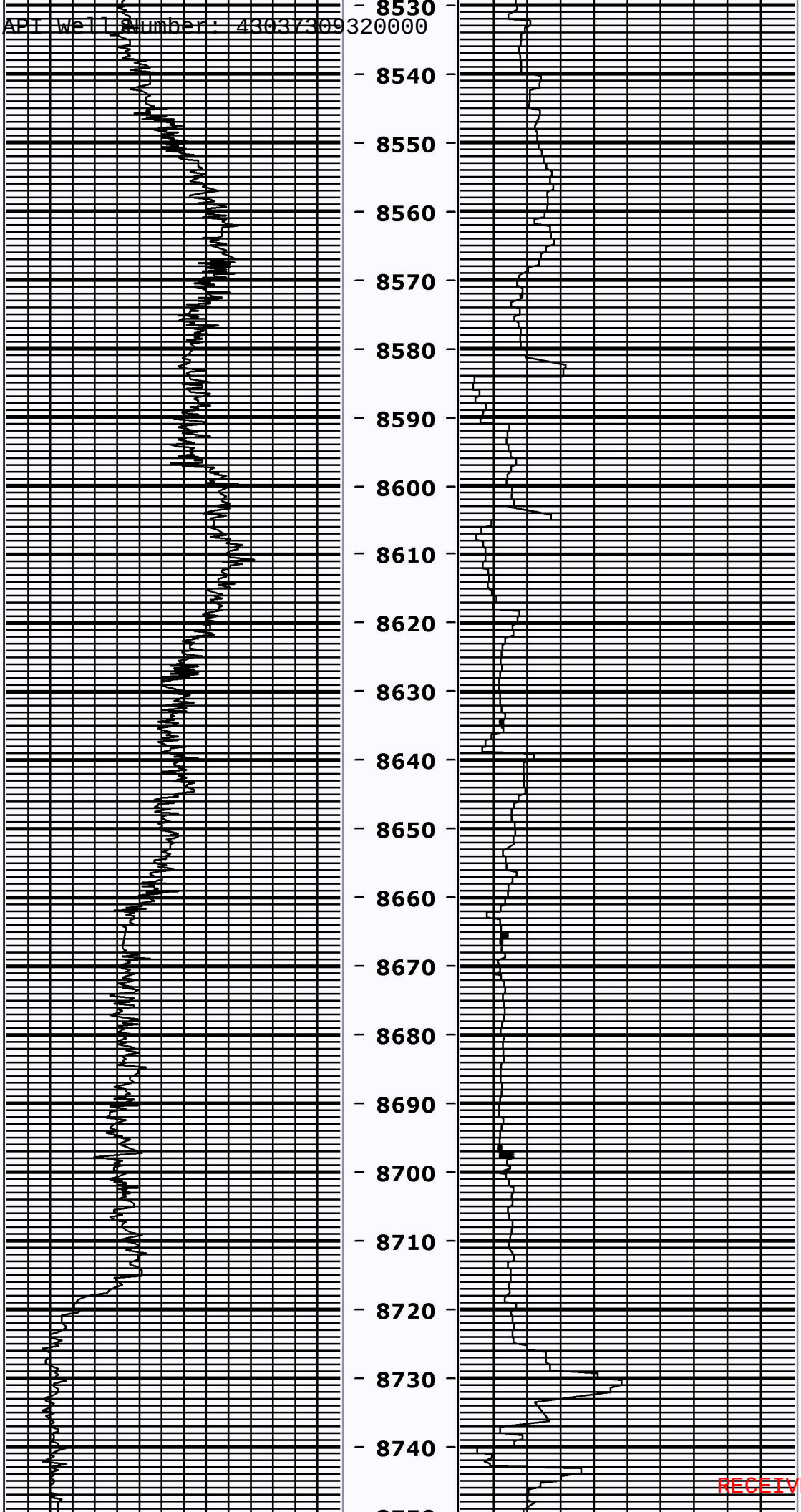
0 ROP [ft per hr] 100

0 Gamma [API] 150
150 Gamma [API] 300

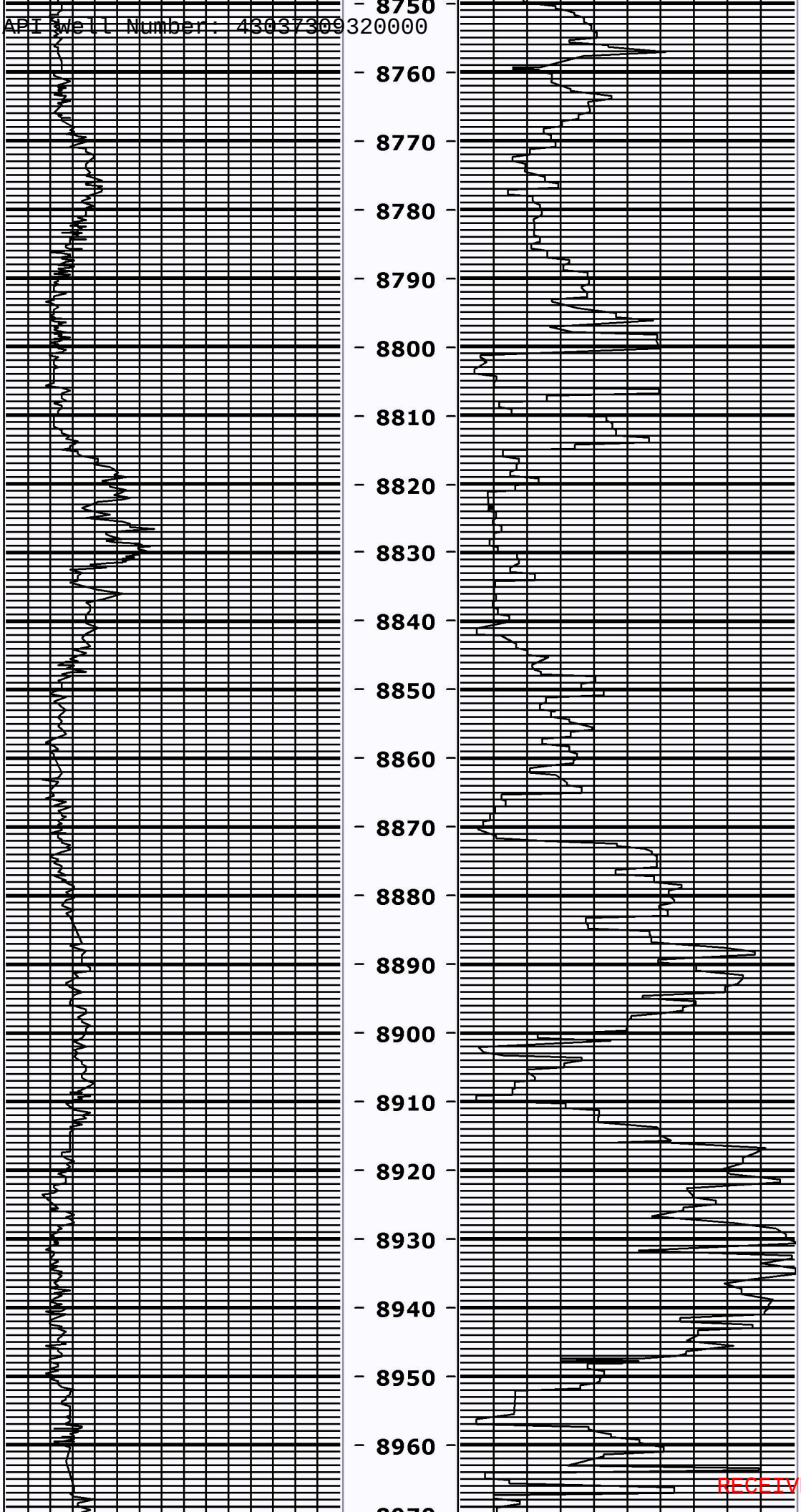
Feet
5":100'
MD

8500
8510
8520

MD=8525.0 INC=90.5
AZM=320.5 TVD=5675.6



API Well Number: 43037309320000



MD=8775.0 INC=87.8
AZM=318.4 TVD=5678.6

MD=8806.0 INC=88.2
AZM=318.3 TVD=5679.7

MD=8838.0 INC=89.1
AZM=318.4 TVD=5680.5

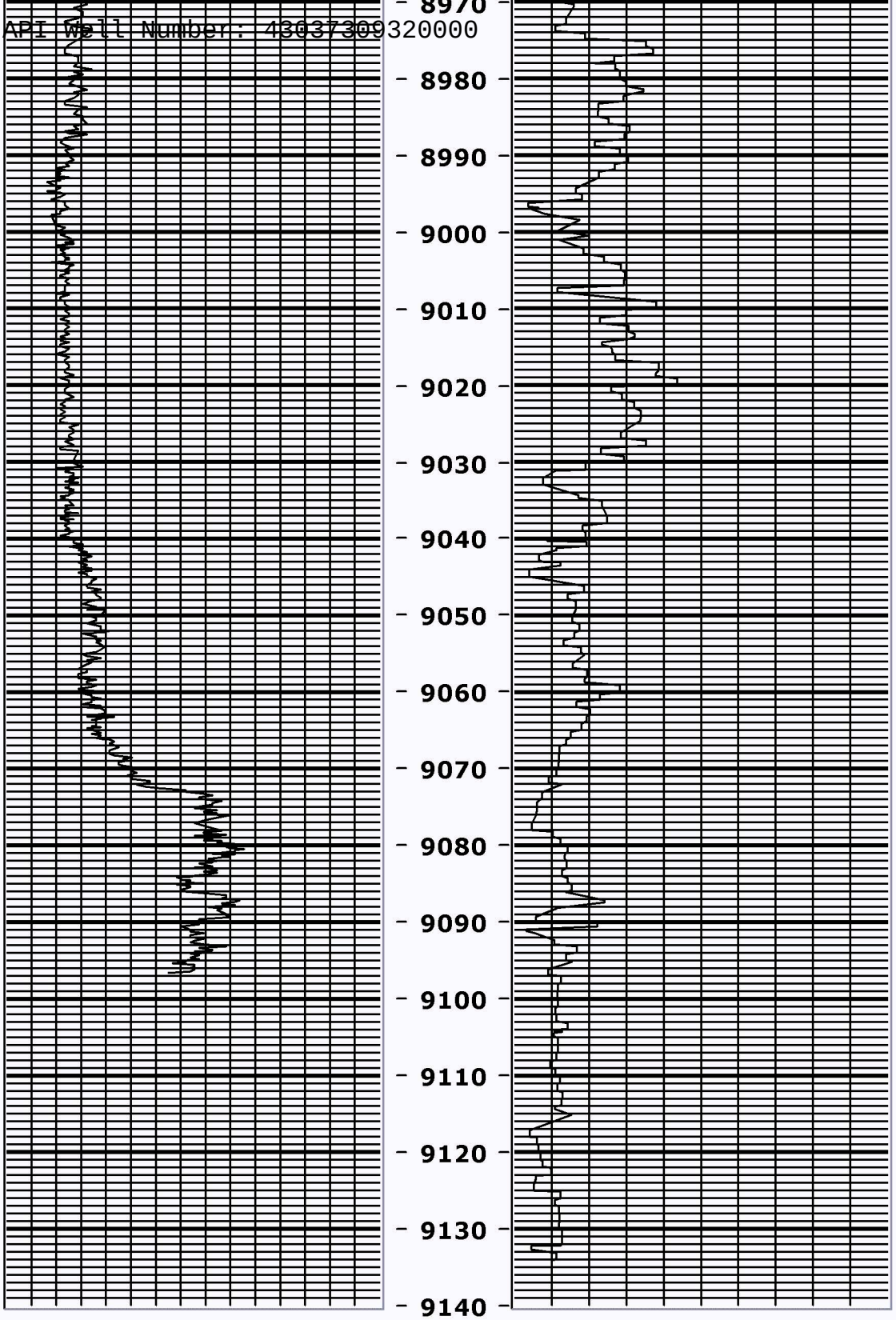
MD=8869.0 INC=90.0
AZM=318.4 TVD=5680.7

MD=8901.0 INC=89.1
AZM=317.9 TVD=5681.0

MD=8932.0 INC=89.1
AZM=317.9 TVD=5681.5

MD=8961.0 INC=90.5
AZM=318.3 TVD=5681.6

RECEIVED: Aug. 27, 2013



0 Gamma [API] 150
150 Gamma [API] 300

Feet
5":100'
MD

0 ROP [ft per hr] 100

Client: **Resolute Natural Resources**
Well Name: **RU 29-33H**
Well Lic:
API/UWI: **43-037-30932**

Mezintel

RECEIVED: Aug. 27, 2013

API/UWI:					
Surface LSD:	SEC S29-T41S-R24E			KB:	4927.90
State/Prov:	UT	Job #:	MWDTECH1318	GL:	4911.4
Country:	USA	MWD Kit:	P105	DF:	16.50

API Well Number: 43037309320000

RECEIVED: Aug. 27, 2013

API well Number: 43037309320000

Mezintel

TVD Log **5"=100ft** **Feet**

Oil Company:	Resolute Natural Resources
Well Name:	RU 29-33H
LSD:	SEC S29-T41S-R24E
State/Prov:	UT
Country:	USA
Job #:	MWDTECH1318
Rig #:	D & J 1
Drilling Co.	D & J Drilling
Co Rep 1:	Dee Gillis
Co Rep 2:	Art Velasquez
Geologist 1:	
Geologist 2:	
DD 1:	David Westbrook
DD 2:	Shane Sloigar
MWD 1:	Ron Alexus
MWD 2:	Chuck Tripp
MWD Kit:	P105

Well Lic:	
API/UWI:	43-037-30932
AFE #:	10013781

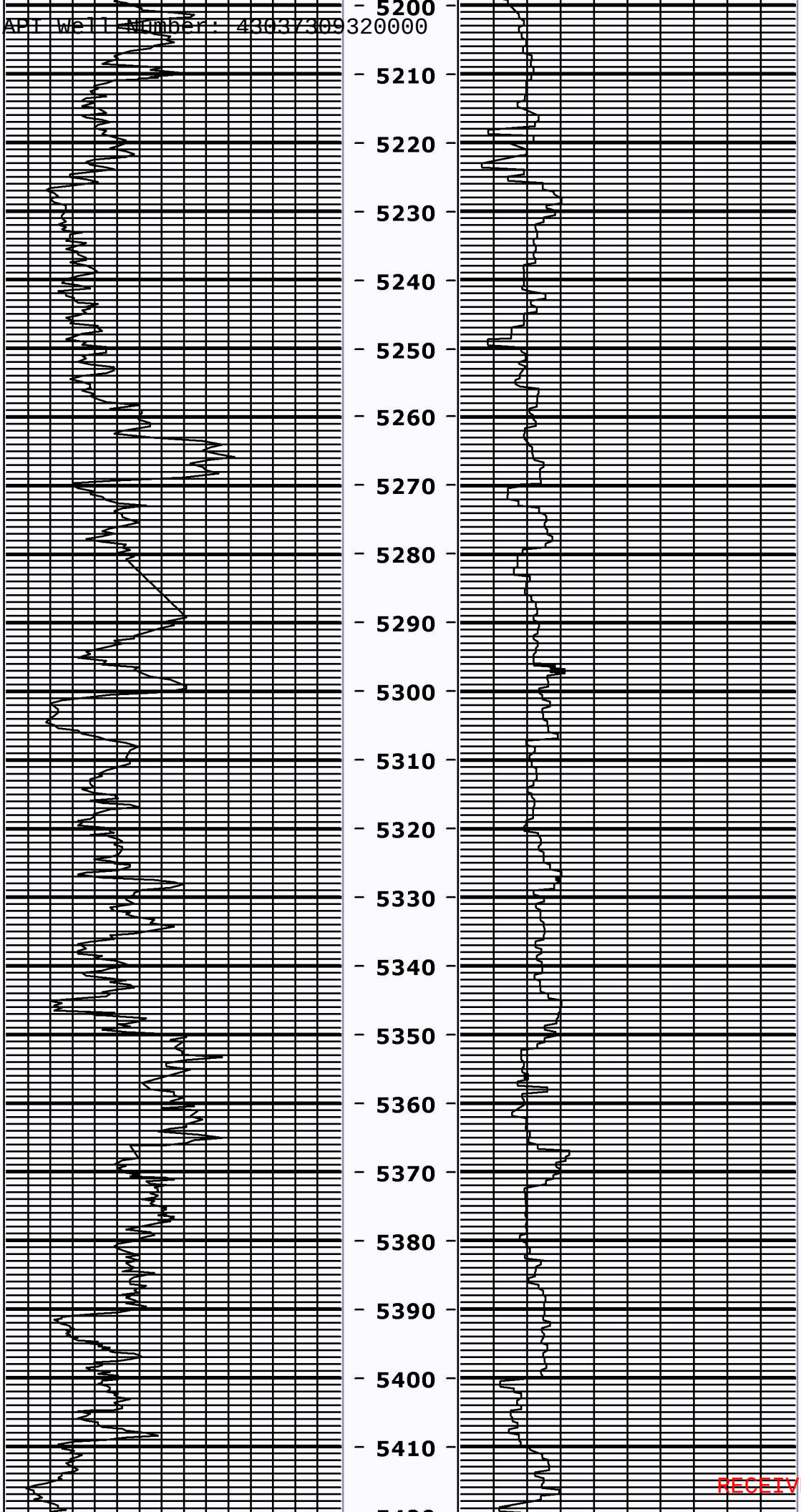
Oil Co:	Resolute Natural Resources
Well Name:	RU 29-33H
LSD:	SEC S29-T41S-R24E
State/Prov:	UT
Country:	USA
Job #:	MWDTECH1318

Casing Depths	TVD Depth	Date	
Surface:	Start: 5178	7/6/13	KB: 4927.90
Intermediate:	End: 5699.71		GL: 4911.4
			DF: 16.50

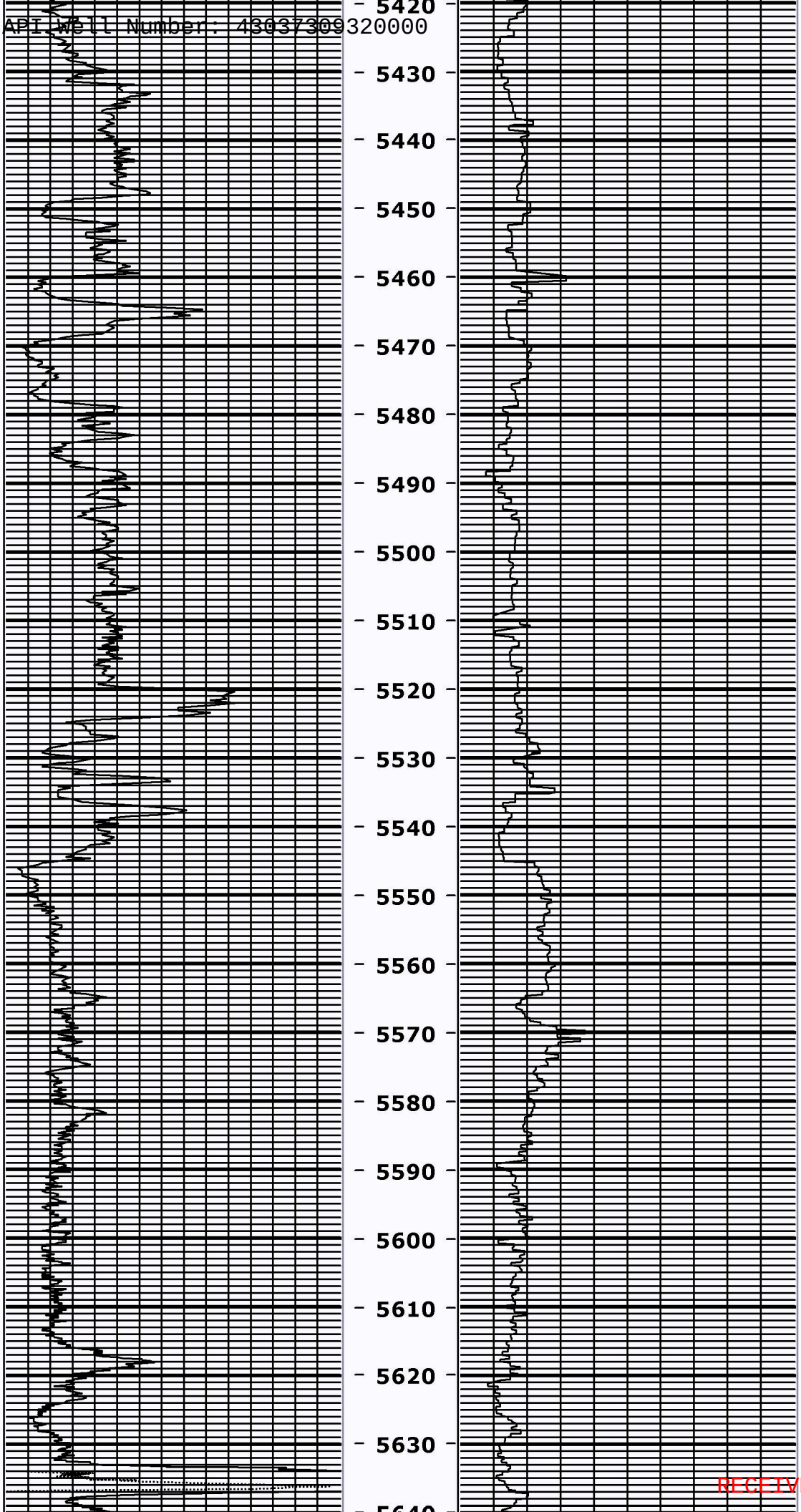
Run #	Hole Size (in)	Gamma Offset	Survey Offset	Depth Start	Depth End	Date Start	Date End
01	6 1/4	38.00	45.00	5176.00	5783.00	Jul 06, 13	Jul 10, 13
02	6 1/4	40.00	46.00	5783.00	7865.00	Jul 10, 13	Jul 17, 13
03	6 1/4	40.30	46.00	7865.00	8076.00	Jul 17, 13	Jul 19, 13
04	6 1/4	38.10	45.00	8076.00	9134.80	Jul 19, 13	Jul 24, 13

Mezintel

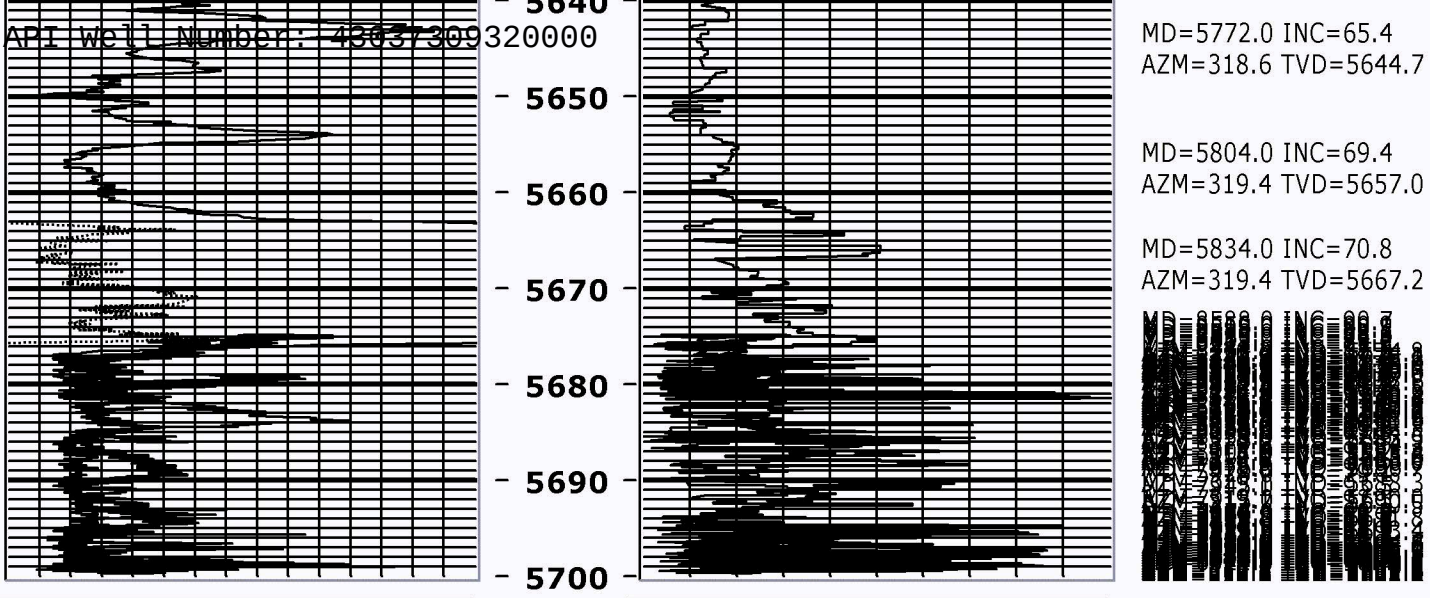
Client: **Resolute Natural Resources**
Well Name: **RU 29-33H**
Well Lic:
API/UWI: **43-037-30932**
Surface LSD: **SEC S29-T41S-R24E** KB: **4927.90**
State/Prov: **UT** Job #: **MWDTECH1318** GL: **4911.4**
Country: **USA** MWD Kit: **P105** DF: **16.50**



RECEIVED: Aug. 27, 2013



RECEIVED: Aug. 27, 2013



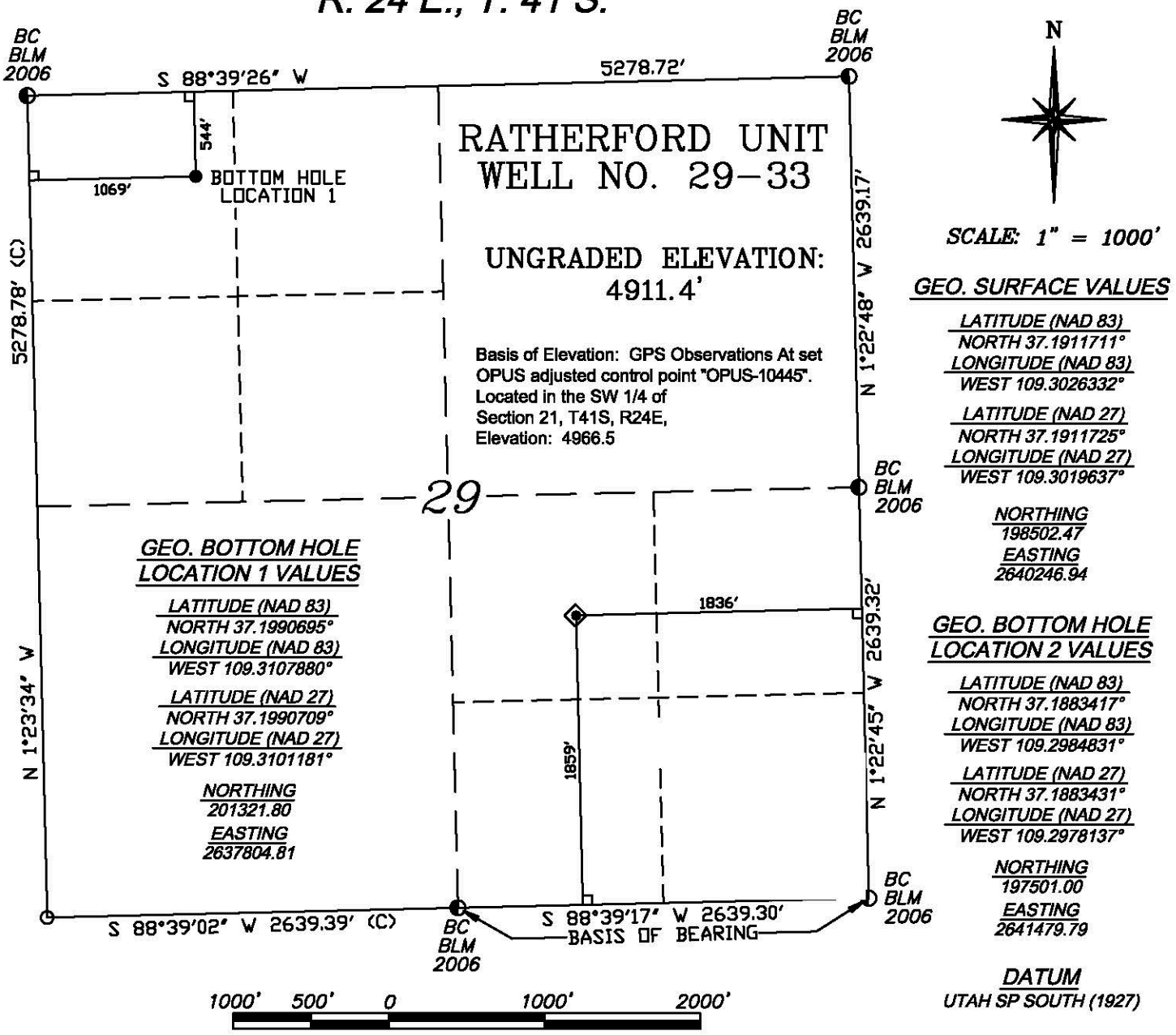
0 Gamma [API] 150	Feet	0 ROP [ft per hr] 100
150 Gamma [API] 300	5":100'	
	TVD	

Mezintel

Client:	**Resolute Natural Resources**			
Well Name:	**RU 29-33H**			
Well Lic:				
API/UWI:	**43-037-30932**			
Surface LSD:	**SEC S29-T41S-R24E**		KB:	**4927.90**
State/Prov:	**UT**	Job #: **MWDTECH1318**	GL:	**4911.4**
Country:	**USA**	MWD Kit: **P105**	DF:	**16.50**

RECEIVED: Aug. 27, 2013

R. 24 E., T. 41 S.



GEO. SURFACE VALUES

LATITUDE (NAD 83)
NORTH 37.1911711°
LONGITUDE (NAD 83)
WEST 109.3026332°

LATITUDE (NAD 27)
NORTH 37.1911725°
LONGITUDE (NAD 27)
WEST 109.3019637°

NORTHING
198502.47
EASTING
2640246.94

GEO. BOTTOM HOLE LOCATION 1 VALUES

LATITUDE (NAD 83)
NORTH 37.1990695°
LONGITUDE (NAD 83)
WEST 109.3107880°

LATITUDE (NAD 27)
NORTH 37.1990709°
LONGITUDE (NAD 27)
WEST 109.3101181°

NORTHING
201321.80
EASTING
2637804.81

GEO. BOTTOM HOLE LOCATION 2 VALUES

LATITUDE (NAD 83)
NORTH 37.1883417°
LONGITUDE (NAD 83)
WEST 109.2984831°

LATITUDE (NAD 27)
NORTH 37.1883431°
LONGITUDE (NAD 27)
WEST 109.2978137°

NORTHING
197501.00
EASTING
2641479.79

DATUM
UTAH SP SOUTH (1927)

SURVEYOR'S STATEMENT:

I, John A. Vukonich, of Farmington, New Mexico, hereby state: This plat was made from notes taken during an actual survey under my direct supervision on FEBRUARY 8, 2013, and it correctly shows the location of RATHERFORD UNIT WELL NO. 29-33.

I certify this plat to reflect the one lateral drilled, to the best of my knowledge at this time.
Sherry Glass 10-23-13
Sr. Regulatory Technician, Resolute Aneth, LLC

LEGEND

- SURFACE WELL LOCATION
- BOTTOM HOLE LOCATION
- CALCULATED POSITION
- FOUND MONUMENT
- DENOTES 90° TIE
- (C) CALCULATED

UNITED FIELD SERVICES INC.

P.O. BOX 3651
FARMINGTON, N.M.
(505) 334-0408

PLAT OF PROPOSED WELL LOCATION FOR RESOLUTE NATURAL RESOURCES COMPANY

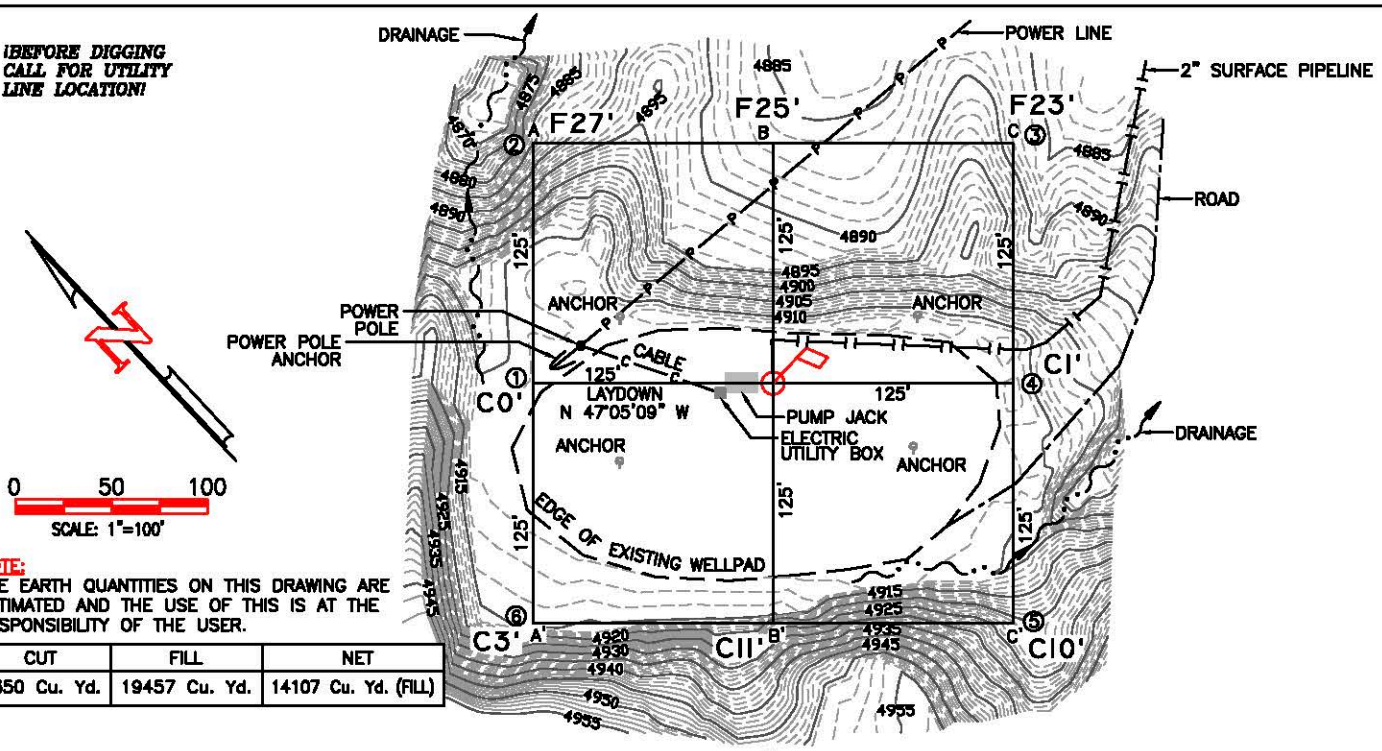
SCALE: 1" = 1000'
JOB No. 10445
DATE: 03/01/13

SURFACE: 1859' F/NL & 1836' F/EL, BOTTOM HOLE 1: 544' F/NL & 1069' F/WL, BOTTOM HOLE 2: 829' F/SL & 628' F/EL, SECTION 29, T. 41 S, R. 24 E, SLM., SAN JUAN COUNTY, UTAH

BY: H.S. DWG.#: 10445W01

RECEIVED: Aug. 27, 2013

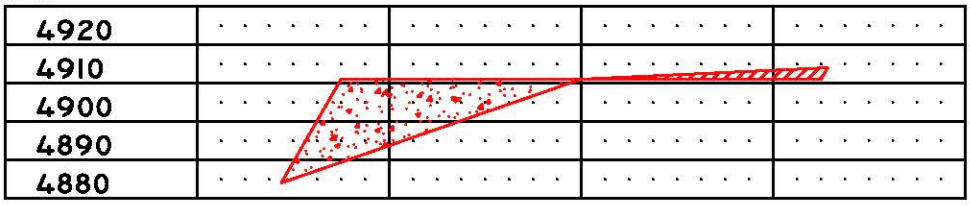
!BEFORE DIGGING CALL FOR UTILITY LINE LOCATION!



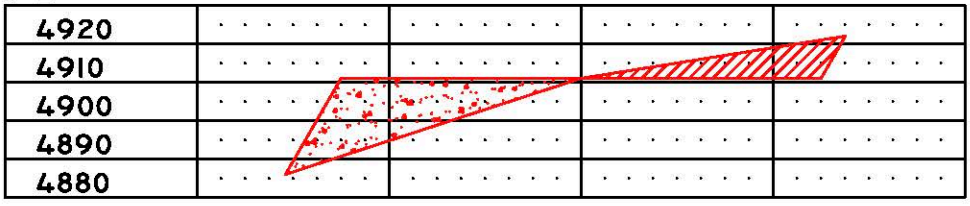
NOTE:
THE EARTH QUANTITIES ON THIS DRAWING ARE ESTIMATED AND THE USE OF THIS IS AT THE RESPONSIBILITY OF THE USER.

CUT	FILL	NET
5350 Cu. Yd.	19457 Cu. Yd.	14107 Cu. Yd. (FILL)

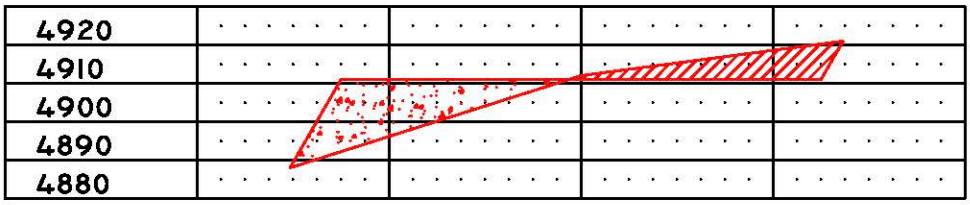
A–A'



B–B'



C–C'



CROSS SECTIONS
HORIZONTAL: 1"=100'
VERTICAL: 1"=50'

EXHIBIT IA

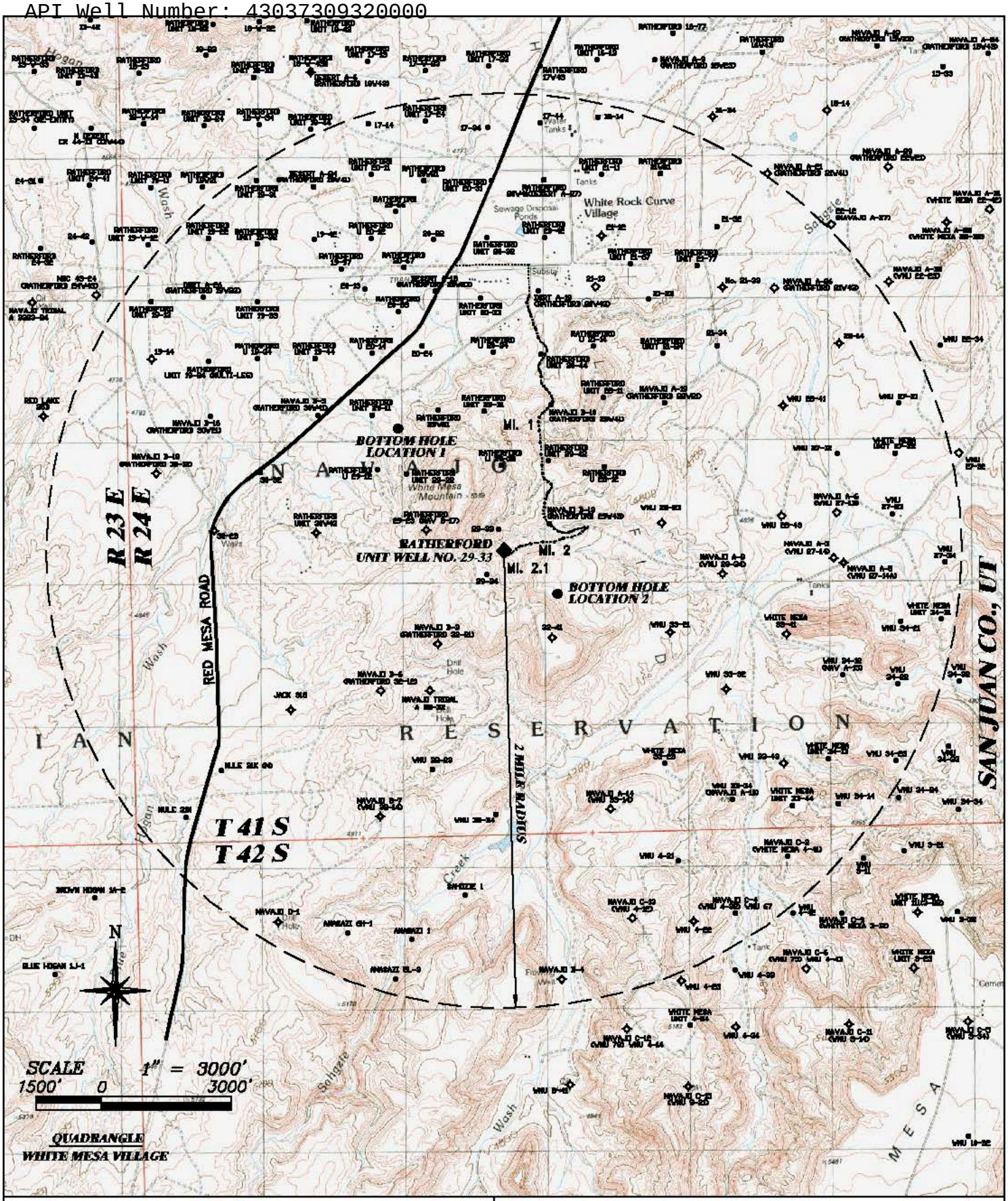
LEASE: RATHERFORD UNIT WELL NO. 29-33
FOOTAGES: 1859' FSL, 1836' FEL (SURFACE)
544' FNL, 1069' FWL (BOTTOM HOLE 1)
829' FSL, 628' FEL (BOTTOM HOLE 2)
SEC. 29 TWN. 41 S RNG. 24 E S.L.M.
LATITUDE: N 37.1911711° LONGITUDE: W 109.3026332°
ELEVATION: 4911

RESOLUTE NATURAL RESOURCES

SURVEYED: 02/08/13	REV. DATE:	APP. BY J.A.V.
DRAWN BY: H.S.	DATE DRAWN: 03/01/13	FILE NAME: 10445C01

UNITED FIELD SERVICES INC.
P.O. BOX 3651
FARMINGTON, NM 87499
OFFICE: (505) 334-0408

RECEIVED: Aug. 27, 2013



UNITED FIELD SERVICES INC.

P.O. BOX 3651
FARMINGTON, N.M.
(505) 334-0408

SCALE: 1" = 3000'
JOB No. 10445
DATE: 03/01/13

PROPOSED WELL LOCATION FOR RESOLUTE NATURAL RESOURCES RATHERFORD UNIT WELL NO. 29-33

EXISTING ROAD
ACCESS/EGRESS

EXHIBIT 2A

BY: H.S. DWG.#: 10445T01

RECEIVED: Aug. 27, 2013

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-407

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO

7.UNIT or CA AGREEMENT NAME: RATHERFORD

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: 29-33

2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES

9. API NUMBER: 43037309320000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535

PHONE NUMBER: 303 534-4600 Ext

9. FIELD and POOL or WILDCAT: GREATER ANETH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1859 FSL 1836 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 29 Township: 41.0S Range: 24.0E Meridian: S

COUNTY: SAN JUAN

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 3/17/2015	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Replace ESP with Rod Pump

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute Natural Resources respectfully submits this sundry as notice that we will be removing the ESP pump and replacing with a Rod Pump. See attached procedures and before and after schematics

Accepted by the Utah Division of Oil, Gas and Mining

Date: April 02, 2015

By: Dark K Dunt

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Erin Joseph	303 573-4886	Sr. Regulatory Analyst
SIGNATURE N/A		**DATE** 3/10/2015

RECEIVED: Mar. 10, 2015

Resolute
Natural Resources

RU 29-33H Pull Failed ESP & Replace with Rod Pump

Horsley Witten: YES - Chinle isolated by surface casing - no remedial cement isolation required.

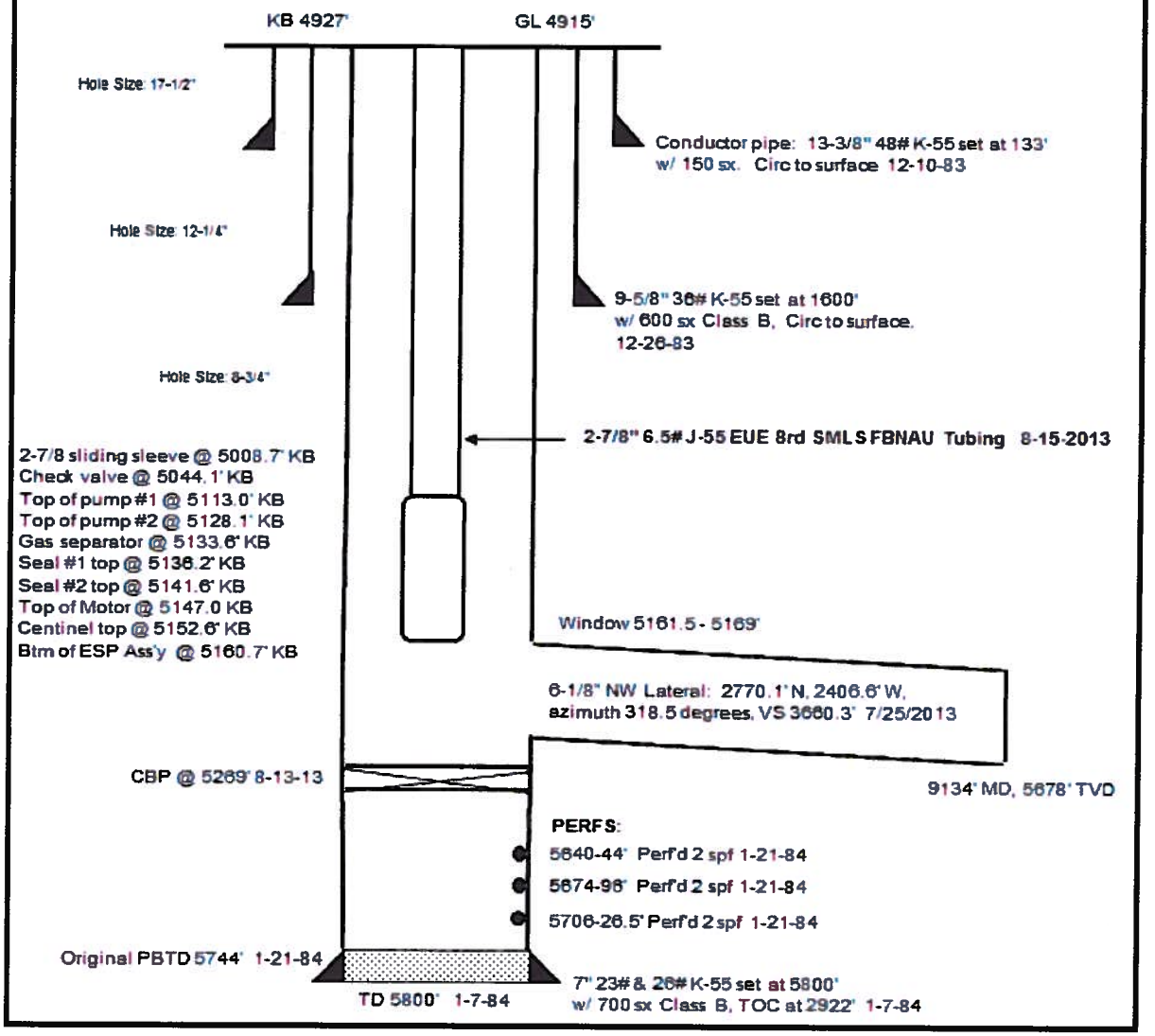
Procedure:

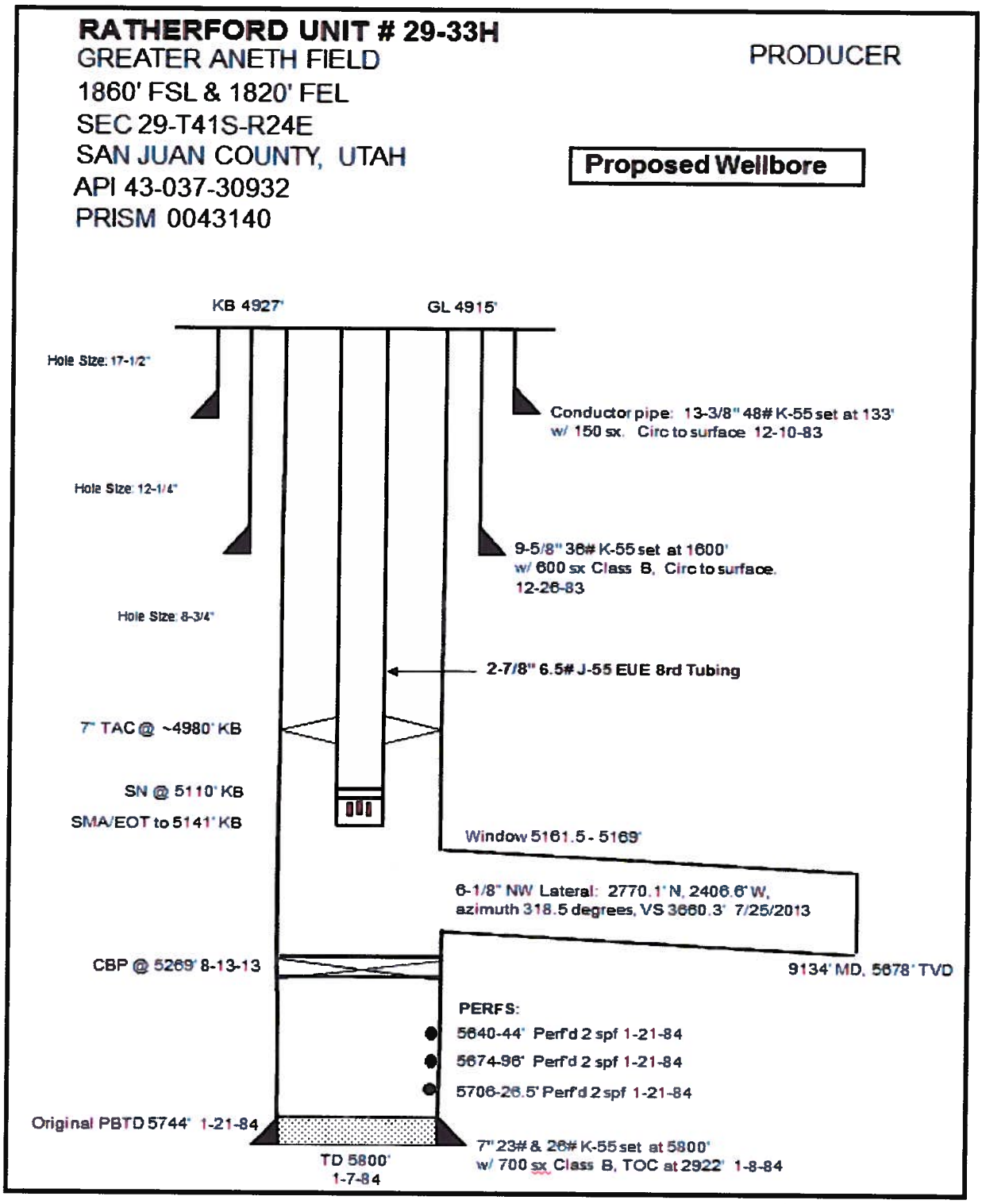
1. PRODUCTION/ICE: Change electric service from ESP to Lufkin 228-246-86 beam pump; Move & set up used Lufkin 228 unit from RU 30-32 (TA'd April 2014).
2. MIRU WSU, LOTO.
3. Pressure test the tubing against check valve at top of ESP. Shift 2-7/8 sliding sleeve open at 5009' KB.
4. Pump in & kill well as necessary.
5. ND WH, NU BOP; cut cable. PU tubing & test packer, test BOP. LD packer.
6. MIRU ESP cable spooler & capillary string spooler. Note: plan to re-run 60' cap string if condition is OK after trip out & PT is good. If not, run new 1/4" x 60' cap string.
7. POOH with failed ESP, cable, cap string, & 2-7/8 tubing. Stand back tubing. Call and notify Bill Albert (970) 371-9682 for inspection. If unavailable, contact Tech Support: Virgil Holly or Nate Dee. Tubing to be used for bit & scraper run, then replaced, if inspection dictates, with 2-7/8 YB.
8. TIH with extra joints and bit & scraper to top of window @ 5161' KB.
9. TOOH with bit & scraper laying down tbg. Pending inspection, tbg may be sent for inspection/recond.
10. RIH with rod pumping BHA & 2-7/8 tubing as follows: 3-1/2" MA joint, crossover, 2-7/8 carbon steel SN, 3-1/2" blast joint with crossovers, 3 jts 2-7/8 tubing, 7" TAC, and 2-7/8 tubing to surface, including cap string to 60'. NOTE: cap string may be run deeper pending tubing inspection results.
11. Set TAC at ~4980'; MA/EOT to ~ 5141' KB. Land tubing. NDBOP, NUWH.
12. RIH with reconditioned 7/8 x 3/4 rod string & 1.75" insert pump, seat the pump. Contact Tech Support for pump & rod details.
13. Long stroke pump to test for good pump action.
14. Leave enough polish rod for operators to correctly space pump as required.
15. Notify the Area Production Supervisor Alfred Redhouse (435) 619-7227 that well is ready to return to production.
16. RDMOL. Hook up appropriate chemical treatment.

RATHERFORD UNIT # 29-33H
GREATER ANETH FIELD
1860' FSL & 1820' FEL
SEC 29-T41S-R24E
SAN JUAN COUNTY, UTAH
API 43-037-30932
PRISM 0043140

PRODUCER

Existing Wellbore




RATHERFORD UNIT # 29-33H
GREATER ANETH FIELD
1860' FSL & 1820' FEL
SEC 29-T41S-R24E
SAN JUAN COUNTY, UTAH
API 43-037-30932
PRISM 0043140
PRODUCER
Proposed Wellbore
KB 4927'
GL 4915'
Hole Size: 17-1/2"
Conductor pipe: 13-3/8" 48# K-55 set at 133'
w/ 150 sx. Circ to surface 12-10-83
Hole Size: 12-1/4"
9-5/8" 36# K-55 set at 1600'
w/ 600 sx Class B, Circ to surface.
12-26-83
Hole Size: 8-3/4"
2-7/8" 6.5# J-55 EUE 8rd Tubing
7" TAC @ ~4980' KB
SN @ 5110' KB
SMA/EOT to 5141' KB
Window 5161.5 - 5169'
6-1/8" NW Lateral: 2770.1' N, 2406.6' W,
azimuth 318.5 degrees, VS 3660.3' 7/25/2013
CBP @ 5269' 8-13-13
9134' MD, 5678' TVD
PERFS:
5640-44' Perf'd 2 spf 1-21-84
5674-96' Perf'd 2 spf 1-21-84
5706-26.5' Perf'd 2 spf 1-21-84
Original PBTD 5744' 1-21-84
TD 5800'
1-7-84
7" 23# & 26# K-55 set at 5800'
w/ 700 sx Class B, TOC at 2922' 1-8-84

Sundry Number: 65405 API Well Number: 43037309320000

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
14-20-603-407

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
NAVAJO

7.UNIT or CA AGREEMENT NAME:
RATHERFORD

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
29-33

2. NAME OF OPERATOR:
RESOLUTE NATURAL RESOURCES

9. API NUMBER:
43037309320000

3. ADDRESS OF OPERATOR:
1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535

PHONE NUMBER:
303 534-4600 Ext

9. FIELD and POOL or WILDCAT:
GREATER ANETH

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1859 FSL 1836 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NWSE Section: 29 Township: 41.0S Range: 24.0E Meridian: S

COUNTY:
SAN JUAN

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 8/30/2015	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	✓ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Pull pump and BHA

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute Natural Resources respectfully submits this sundry as notice of the well work below. Plan to pull pump, tubing and BHA and re-run according to attached procedures.

Accepted by the Utah Division of Oil, Gas and Mining

Date: August 17, 2015

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Erin Joseph	303 573-4886	Sr. Regulatory Analyst
SIGNATURE		**DATE**
N/A		8/12/2015

RECEIVED: Aug. 12, 2015

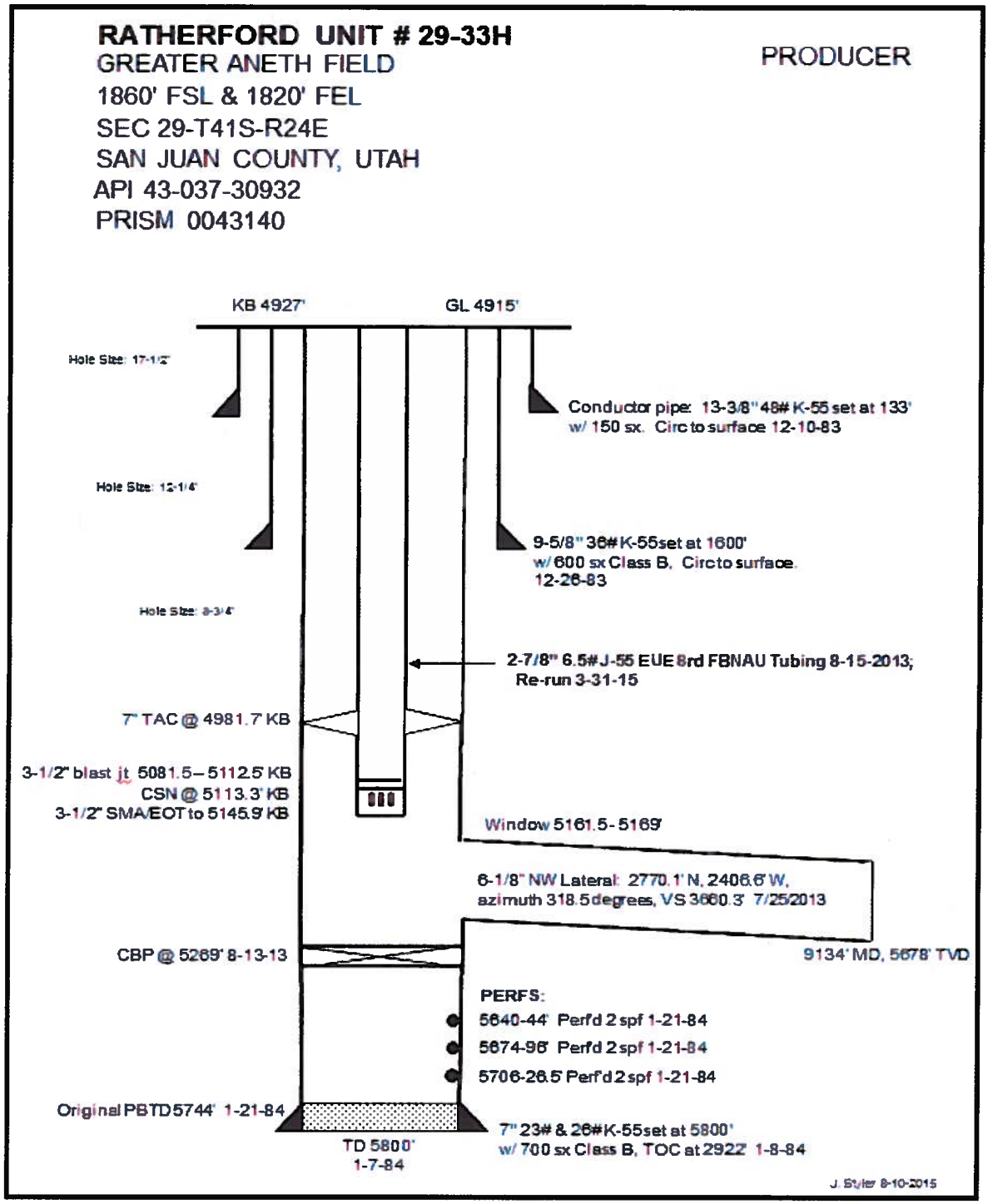
Resolute
Natural Resources

Re: RU 29-33H Workover for Stuck TAC

Horsley Witten: NO.

Procedure:

1. MIRU WSU, LOTO.
2. Pressure test tubing to 1000 psig.
3. Kill well as necessary.
4. POOH with rods and pump, standing back rods. Call and notify Bill Albert (970) 371-9682 to inspect rods. If unavailable, contact Tech Support: Virgil Holly (435) 444-0020 or Nate Dee. **Check for paraffin on rods; history of paraffin: Be prepared to pump paraffin solvent down tubing past the rod string before rods are all pulled if paraffin is heavy.**
5. Inspect rod string & pump for cause of sticking plunger. NU BOPE to pull tubing.
6. Release the TAC @ 4981.7' KB. Install a packer & pressure test BOPE. LD packer.
7. PU tag joints & tag bottom to check for fill; PBD at 5269' KB, below window at 5161-5169'. Tally out of hole & stand back tbg.
8. Call and notify Bill Albert 970-371-9682 to inspect tubing. If unavailable, contact Virgil Holly or Nate Dee.
9. If needed, run bit only for cleanout to 5269' PBD; consider bailer before nitrogen. No cleanout past the window on last pull in Mar2015.
10. TOOH with tubing & bit, standing back.
11. RIH/POH & LD or re-run tbg per inspection results. New 2-7/8 FBNAU tbg was run 8-15-2013; re-run 3-31-2015.
12. TIH with 3-1/2" SMA joint, changeover, 2-7/8 carbon steel SN, 3-1/2" blast joint w/changeovers, 3 jts tubing, TAC and tubing to surface.
13. Set bottom of SMA at ~ 5146' KB as before; set TAC at ~4985' KB.
14. ND BOP, NUWH. Change over for rods.
15. RIH with 1-1/4" x 16' gas anchor, new 1-3/4" insert pump, and rods. Contact Tech Support to confirm pump & rod details.
16. Long stroke pump to test for good pump action.
17. Leave enough polished rod for operators to correctly space pump as required.
18. Notify the Area Production Supervisor Alfred Redhouse (435) 619-7227 that well is ready.
19. RDMOL. Hook up appropriate chemical treatment.


RATHERFORD UNIT # 29-33H
GREATER ANETH FIELD
1860' FSL & 1820' FEL
SEC 29-T41S-R24E
SAN JUAN COUNTY, UTAH
API 43-037-30932
PRISM 0043140
PRODUCER
KB 4927'
GL 4915'
Hole Size: 17-1/2"
Conductor pipe: 13-3/8" 48# K-55 set at 133'
w/ 150 sx. Circ to surface 12-10-83
Hole Size: 12-1/4"
9-5/8" 36# K-55 set at 1600'
w/ 600 sx Class B, Circ to surface.
12-26-83
Hole Size: 8-3/4"
2-7/8" 6.5# J-55 EUE 8rd FBNAU Tubing 8-15-2013;
Re-run 3-31-15
7" TAC @ 4981.7' KB
3-1/2" blast jt 5081.5 – 5112.5' KB
CSN @ 5113.3' KB
3-1/2" SMA/EOT to 5145.9' KB
Window 5161.5 - 5169'
6-1/8" NW Lateral: 2770.1' N, 2406.6' W,
azimuth 318.5 degrees, VS 3660.3' 7/25/2013
9134' MD, 5678' TVD
CBP @ 5269' 8-13-13
PERFS:
5640-44' Perf'd 2 spf 1-21-84
5674-96' Perf'd 2 spf 1-21-84
5706-26.5' Perf'd 2 spf 1-21-84
Original PBTD 5744' 1-21-84
7" 23# & 26# K-55 set at 5800'
w/ 700 sx Class B, TOC at 2922' 1-8-84
TD 5800'
1-7-84
J. Styler 8-10-2015

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
14-20-603-407

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
NAVAJO

7.UNIT or CA AGREEMENT NAME:
RATHERFORD

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
29-33

2. NAME OF OPERATOR:
RESOLUTE NATURAL RESOURCES

9. API NUMBER:
43037309320000

3. ADDRESS OF OPERATOR:
1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535

PHONE NUMBER:
303 534-4600 Ext

9. FIELD and POOL or WILDCAT:
GREATER ANETH

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1859 FSL 1836 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NWSE Section: 29 Township: 41.0S Range: 24.0E Meridian: S

COUNTY:
SAN JUAN

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 4/3/2015	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☑ OTHER	OTHER: Replace pump

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute Natural Resources respectfully submits this sundry as notice that the ESP Pump on the above well was replaced by a Rod Pump on 4/3/2015

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
December 17, 2015

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Erin Joseph	303 573-4886	Sr. Regulatory Analyst
SIGNATURE		**DATE**
N/A		12/17/2015

RECEIVED: Dec. 17, 2015

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-407

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO

7.UNIT or CA AGREEMENT NAME: RATHERFORD

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: 29-33

2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES

9. API NUMBER: 43037309320000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535

PHONE NUMBER: 303 534-4600 Ext

9. FIELD and POOL or WILDCAT: GREATER ANETH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1859 FSL 1836 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 29 Township: 41.0S Range: 24.0E Meridian: S

COUNTY: SAN JUAN

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 9/5/2015	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☑ OTHER	OTHER: pull pump and BHA

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute Natural Resources respectfully submits this sundry as notice that the pump and bottom hole assembly were successfully pulled out of the above well as outlined in previously approved procedures.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
January 06, 2016

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Erin Joseph	303 573-4886	Sr. Regulatory Analyst
SIGNATURE		**DATE**
N/A		1/6/2016

RECEIVED: Jan. 06, 2016

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-407

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO

7.UNIT or CA AGREEMENT NAME: RATHERFORD

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: 29-33

2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES

9. API NUMBER: 43037309320000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535

PHONE NUMBER: 303 534-4600 Ext

9. FIELD and POOL or WILDCAT: GREATER ANETH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1859 FSL 1836 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 29 Township: 41.0S Range: 24.0E Meridian: S

COUNTY: SAN JUAN

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 3/20/2016	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Workover for stuck Pump

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute Natural Resources respectfully submits this sundry as notice of a workover on the above well. See attached procedures and schematic

Accepted by the Utah Division of Oil, Gas and Mining

Date: March 24, 2016

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Erin Joseph	303 573-4886	Sr. Regulatory Analyst
SIGNATURE N/A		**DATE** 3/14/2016

RECEIVED: Mar. 14, 2016

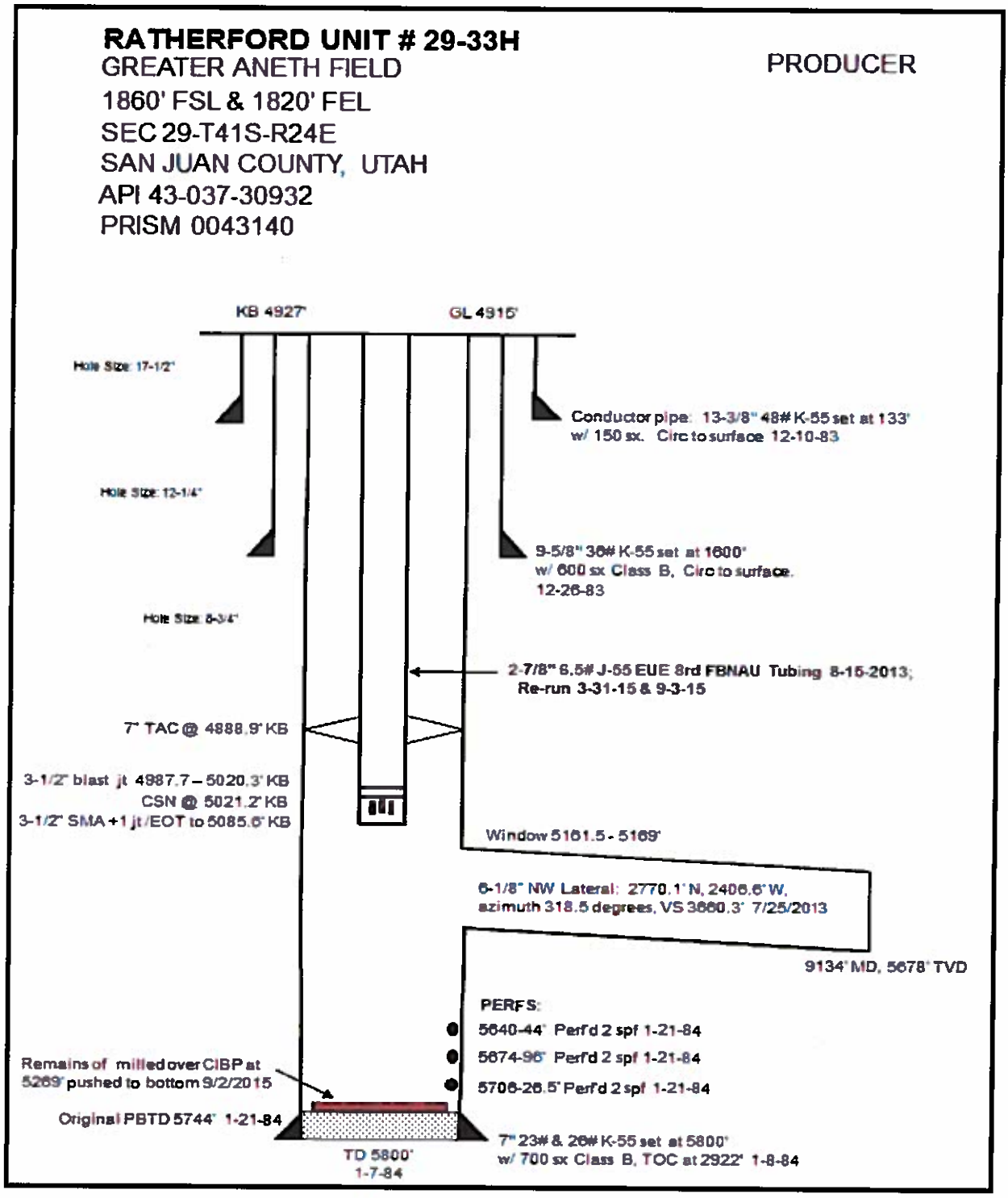
Resolute
Natural Resources

Re: RU 29-33H Producer - Workover for Stuck Pump

Horsley Witten: NO.

Procedure:

1. MIRU WSU, LOTO.
2. Pressure test tubing to 1000 psig.
3. Kill well as necessary.
4. POOH with rods and pump, standing back rods; perform backoff of rods if necessary. Call and notify Bill Albert (970) 371-9682 to inspect rods. If unavailable, contact Tech Support: Virgil Holly (435) 444-0020 or Nate Dee. **Check for paraffin on rods; history of paraffin so be prepared to pump paraffin solvent down tubing after rods are pulled if paraffin is heavy.**
5. Inspect rod string & pump for cause of sticking plunger. If rods & plunger are recovered without backing off rods, pump down tubing w/returns up csg to see if tubing is clear. Shut in returns & continue pumping to see if the well remains bridged off. If no bridge, go to step 17.
6. If wellbore remains bridged off, NU BOPE & prepare to pull tubing.
7. Release the TAC @ 4888.9' KB. Install a packer & pressure test BOPE. LD packer. POOH w/bha & tbg, standing back.
8. Call Bill Albert 970-371-9682 to inspect tubing. If unavailable, contact Virgil Holly or Nate Dee.
9. PU tag joints & 6-1/8" bit, RIH to clean out fill to PBD in vertical section at 5744', = 575' below window at 5161-5169'. POOH.
10. PU off bottom & close pipe rams, pump in PW to check injection rate into lateral + perfs 5640-5726'. If lateral appears to be open, POOH & go to step 13. NOTE: injection rate into the open lateral during Aug 2015 work was 1 bpm @ 100 psi (PW) before the CIBP above the perfs was milled up.
11. If lateral remains bridged off, TOOH with bit, standing back. Evaluate (1) running tbg & pkr to swab, or (2) using Basic CTU or (3) using WSU & 2-7/8 tbg for lateral cleanout.
12. After swabbing or lateral cleanout, pump in to check injection rate to confirm the lateral is open.
13. RIH/POH & LD or re-run tbg per inspection results. New 2-7/8 FBNAU tbg was run 8-15-2013; re-run 3-31-2015 and 9-3-15.
14. TIH with 3-1/2" SMA joint, changeover, 2-7/8 carbon steel SN, 3-1/2" blast joint w/changeovers, 3 jts tubing, 7" TAC and tubing to surface.
15. Set bottom of SMA at ~ 5023' KB = 2 jts higher than previous; set TAC at ~4858' KB.
16. ND BOP, NUWH. Change over for rods.
17. RIH with 1-1/4" x 16' gas anchor, new 1-3/4" insert pump, and rods. Contact Tech Support to confirm pump & rod details.
18. Long stroke pump to test for good pump action.
19. Leave enough polished rod for operators to correctly space pump as required.
20. Notify the Area Production Supervisor Alfred Redhouse 435-619-7227 that well is ready.
21. RDMOL. Hook up appropriate chemical treatment.


RATHERFORD UNIT # 29-33H
GREATER ANETH FIELD
1860' FSL & 1820' FEL
SEC 29-T41S-R24E
SAN JUAN COUNTY, UTAH
API 43-037-30932
PRISM 0043140
PRODUCER
KB 4927'
GL 4915'
Hole Size: 17-1/2"
Conductor pipe: 13-3/8" 48# K-55 set at 133' w/ 150 sx. Circ to surface 12-10-83
Hole Size: 12-1/4"
9-5/8" 36# K-55 set at 1600' w/ 600 sx Class B, Circ to surface. 12-26-83
Hole Size: 8-3/4"
2-7/8" 6.5# J-55 EUE 8rd FBNAU Tubing 8-15-2013; Re-run 3-31-15 & 9-3-15
7" TAC @ 4888.9' KB
3-1/2" blast jt 4987.7 – 5020.3' KB
CSN @ 5021.2' KB
3-1/2" SMA +1 jt /EOT to 5085.6' KB
Window 5161.5 - 5169'
6-1/8" NW Lateral: 2770.1' N, 2406.6' W, azimuth 318.5 degrees, VS 3660.3' 7/25/2013
9134' MD, 5678' TVD
PERFS:
5640-44' Perf'd 2 spf 1-21-84
5674-96' Perf'd 2 spf 1-21-84
5706-26.5' Perf'd 2 spf 1-21-84
Remains of milled over CIBP at 5269' pushed to bottom 9/2/2015
Original PBTD 5744' 1-21-84
TD 5800' 1-7-84
7" 23# & 26# K-55 set at 5800' w/ 700 sx Class B, TOC at 2922' 1-8-84

Sundry Number: 70721 API Well Number: 43037309320000

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
14-20-603-407

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
NAVAJO

7.UNIT or CA AGREEMENT NAME:
RATHERFORD

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
29-33

2. NAME OF OPERATOR:
RESOLUTE NATURAL RESOURCES

9. API NUMBER:
43037309320000

3. ADDRESS OF OPERATOR:
1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535

PHONE NUMBER:
303 534-4600 Ext

9. FIELD and POOL or WILDCAT:
GREATER ANETH

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1859 FSL 1836 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NWSE Section: 29 Township: 41.0S Range: 24.0E Meridian: S

COUNTY:
SAN JUAN

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 4/3/2016	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Workover #2 for Stuck Pump

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute Natural Resources respectfully submits this sundry as notice of workover #2 to retrieve a Stuck Pump in the above wellbore. Attached are the procedures and schematic

Accepted by the Utah Division of Oil, Gas and Mining

Date: April 05, 2016

By: Dark K Dunt

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Erin Joseph	303 573-4886	Sr. Regulatory Analyst
SIGNATURE		**DATE**
N/A		3/31/2016

RECEIVED: Mar. 31, 2016

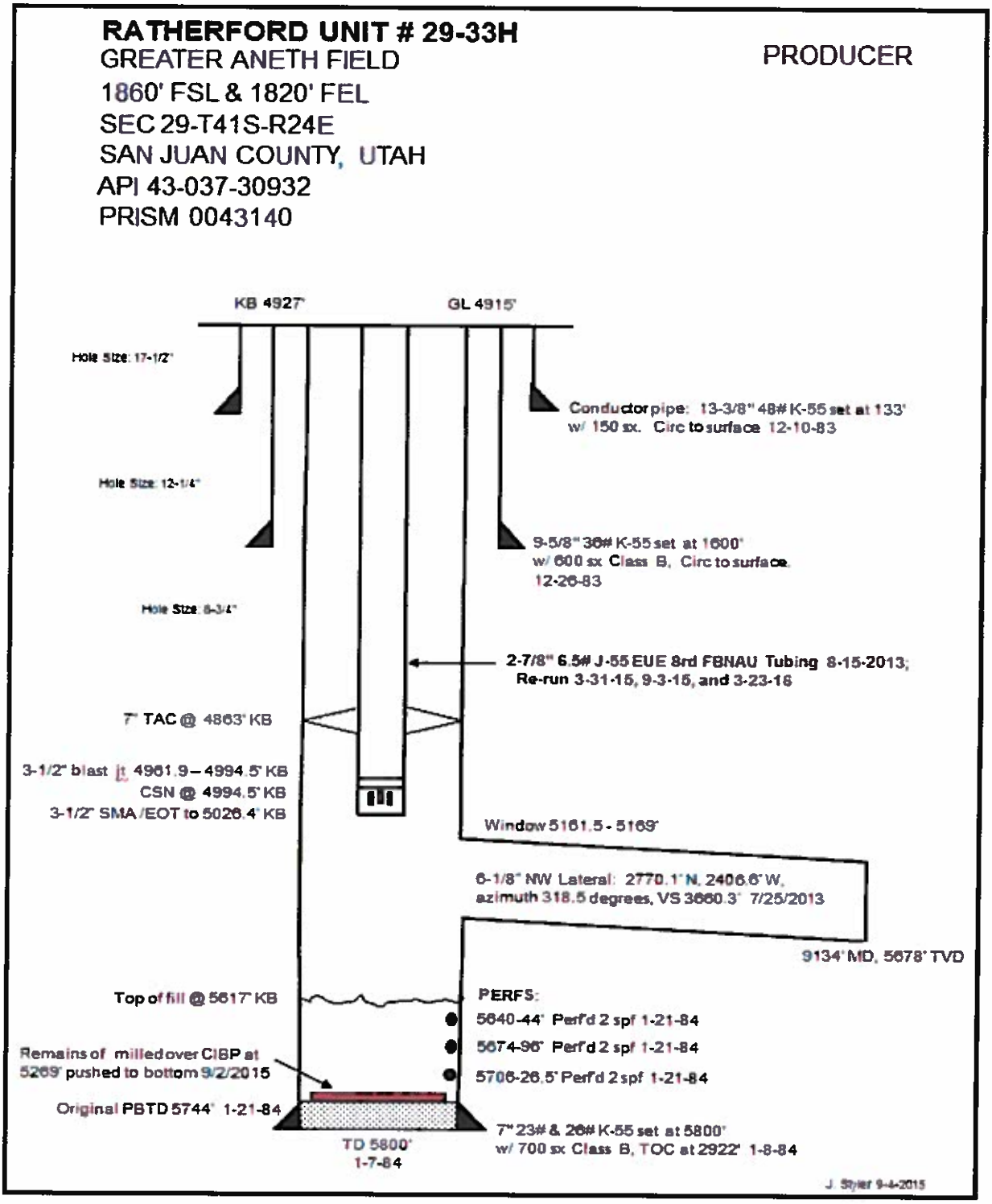
Resolute
Natural Resources

Re: RU 29-33H Producer - Workover #2 for Stuck Pump

Horsley Witten: NO.

Procedure:

1. MIRU WSU, LOTO.
2. Pressure test tubing to 1000 psig.
3. Kill well as necessary.
4. POOH with rods and pump, standing back rods; perform backoff of rods if necessary. No rod inspection will be done this time unless something that warrants attention is noted on the trip out with the rods.
5. Inspect rod string & pump for cause of sticking plunger. If rods & plunger are recovered without backing off rods, pump down tubing w/returns up csg to see if tubing is clear. If tbg is clear, shut in returns & continue pumping to see if the csg or lateral remains bridged off. If lateral is open, go to
6. If wellbore remains bridged off, NU BOPE & prepare to pull tubing.
7. Release the TAC @ 4863' KB. Install a packer & pressure test BOPE. LD packer. POOH w/bha & tbg, standing back.
8. No tbg inspection required this trip; previous inspection done on 3/22/16 with tbg OK for re-run.
9. PU tag joints & 6-1/8" bit, RIH & tag fill in vertical section - previous tag at 5617' on 3/22. Pump in to see if the lateral is bridged off; then perform cleanout to PBD at 5744', = 575' below window at
10. PU off bottom & close pipe rams, pump in to confirm injection into lateral + perfs 5640-5726'. If lateral appears to be open, POOH & go to step 13. NOTE: injection rate into the open lateral during Aug 2015 work was 1 bpm @ 100 psi (PW) before the ClBP above the perfs was milled up.
11. If lateral remains bridged off, TOOH with bit, standing back. Evaluate (1) running tbg & pkr to swab, or (2) using Basic CTU or (3) using WSU & 2-7/8 tbg for lateral cleanout.
12. After swabbing or lateral cleanout, pump in to check injection rate to confirm the lateral is open. Flow back from the well can also confirm this if the volume is significant.
13. POOH & re-run tbg & bha. New 2-7/8 FBNAU tbg was run 8-15-2013; re-run 3-31-2015, 9-3-15, and 3-23-16.
14. TIH with 3-1/2" SMA joint, changeover, 2-7/8 carbon steel SN, 3-1/2" blast joint w/changeovers, 3 jts tubing, 7" TAC and tubing to surface.
15. Set bottom of SMA at ~ 4964' KB = 2 jts shallower than previous depth; set TAC at ~4800' KB.
16. ND BOP, NUWH. Change over for rods.
17. RIH with 1-1/4" x 16' gas anchor, new 1-3/4" insert pump with **0.007 clearance, grooved plunger**, and rods. Contact Tech Support to confirm pump & rod details.
18. Long stroke pump to test for good pump action.
19. Leave enough polished rod for operators to correctly space pump as required.
20. Notify the Area Production Supervisor Alfred Redhouse 435-619-7227 that well is ready.
21. RDMOL. Hook up appropriate chemical treatment.


RATHERFORD UNIT # 29-33H
GREATER ANETH FIELD
1860' FSL & 1820' FEL
SEC 29-T41S-R24E
SAN JUAN COUNTY, UTAH
API 43-037-30932
PRISM 0043140
PRODUCER
KB 4927'
GL 4915'
Hole Size: 17-1/2"
Conductor pipe: 13-3/8" 48# K-55 set at 133'
w/ 150 sx. Circ to surface 12-10-83
Hole Size: 12-1/4"
9-5/8" 36# K-55 set at 1600'
w/ 600 sx Class B, Circ to surface.
12-26-83
Hole Size: 8-3/4"
2-7/8" 6.5# J-55 EUE 8rd FBNAU Tubing 8-15-2013;
Re-run 3-31-15, 9-3-15, and 3-23-16
7" TAC @ 4863' KB
3-1/2" blast jt. 4961.9 – 4994.5' KB
CSN @ 4994.5' KB
3-1/2" SMA /EOT to 5026.4' KB
Window 5161.5 - 5169'
6-1/8" NW Lateral: 2770.1' N, 2406.6' W,
azimuth 318.5 degrees, VS 3660.3' 7/25/2013
9134' MD, 5678' TVD
Top of fill @ 5617' KB
PERFS:
5640-44' Perf'd 2 spf 1-21-84
5674-96' Perf'd 2 spf 1-21-84
5706-26.5' Perf'd 2 spf 1-21-84
Remains of milled over CIBP at
5269' pushed to bottom 9/2/2015
Original PBTD 5744' 1-21-84
7" 23# & 26# K-55 set at 5800'
w/ 700 sx Class B, TOC at 2922' 1-8-84
TD 5800'
1-7-84
J. Styler 9-4-2015

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-407

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO

7.UNIT or CA AGREEMENT NAME: RATHERFORD

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: 29-33

2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES

9. API NUMBER: 43037309320000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535

PHONE NUMBER: 303 534-4600 Ext

9. FIELD and POOL or WILDCAT: GREATER ANETH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1859 FSL 1836 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 29 Township: 41.0S Range: 24.0E Meridian: S

COUNTY: SAN JUAN

STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 3/24/2016	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☑ OTHER	OTHER: Workover/ pump replacemer

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute Natural Resources respectfully submits this sundry as notice that the workover was completed on the above well to replace the failed ESP pump with a Rod pump

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
April 11, 2016

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Erin Joseph	303 573-4886	Sr. Regulatory Analyst
SIGNATURE		**DATE**
N/A		3/30/2016

RECEIVED: Mar. 30, 2016

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-407

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO

7.UNIT or CA AGREEMENT NAME: RATHERFORD

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: 29-33

2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES

9. API NUMBER: 43037309320000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535

PHONE NUMBER: 303 534-4600 Ext

9. FIELD and POOL or WILDCAT: GREATER ANETH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1859 FSL 1836 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 29 Township: 41.0S Range: 24.0E Meridian: S

COUNTY: SAN JUAN

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 4/16/2016	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☑ OTHER	OTHER: Retrieve stuck pump

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute Natural Resources respectfully submits this sundry as notice that the stuck pump was recovered 4/16/16 according to previously approved procedures.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
May 13, 2016

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Erin Joseph	303 573-4886	Sr. Regulatory Analyst
SIGNATURE N/A		**DATE** 5/13/2016

RECEIVED: May. 13, 2016

Sundry Number: 75647 API Well Number: 43037309320000

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
14-20-603-407

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
NAVAJO

7.UNIT or CA AGREEMENT NAME:
RATHERFORD

1. TYPE OF WELL
Oil Well

8. WELL NAME and NUMBER:
29-33

2. NAME OF OPERATOR:
RESOLUTE NATURAL RESOURCES

9. API NUMBER:
43037309320000

3. ADDRESS OF OPERATOR:
1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535

PHONE NUMBER:
303 534-4600 Ext

9. FIELD and POOL or WILDCAT:
GREATER ANETH

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
1859 FSL 1836 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NWSE Section: 29 Township: 41.0S Range: 24.0E Meridian: S

COUNTY:
SAN JUAN

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 10/27/2016	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Repair a Stuck Pump

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute Natural Resources respectfully submits this sundry as notice of a repair on a stuck pump on the above well. Attached are the procedures and schematics

Accepted by the Utah Division of Oil, Gas and Mining

Date: November 09, 2016

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Erin Joseph	303 573-4886	Sr. Regulatory Analyst

SIGNATURE	DATE
N/A	10/27/2016

RECEIVED: Oct. 27, 2016

Procedure

Horsley Witten: No.

1. MIRU WSU, LOTO,

2. Evaluate polish rod and stuck pump position. No failure report has been completed.

3. Kill well as necessary.

4. POOH with rods X pump. Fish or strip as necessary.Stand back in derrick. Contact Tech Support: Virgil Holly or Nate Dee for rod inspection.

5. ND WH. NU BOPE.

6. Release the TAC @ ~4798' KB. Install a packer. Pressure test BOPE.

7. TOOH with tubing. Stand back in derrick.

8. Call and notify Virgil Holly or Nate Dee to inspect tubing.

9. If tubing needs replaced, run YB , as necessary.

10. PU bit. Clean out to PBTD of 5744. Bottom perf at 5726'. Window at 5161 - 5169. Use N2 as necessary. It is not planned to attempt a lateral cleanout. Do not pump into the lateral. POOH.

11. TIH with 2-7/8" orange peel joint; Four ft (4') perf sub, SN, one joint 70XT 2-7/8", TAC, and 2-7/8 tubing to surface. Set TAC at ~4000 ft or 1000 ft above window. **Note: Change in BHA and setting**

12. NDBOP, NUWH.

13. RIH with rods & insert pump. Contact Tech Support for pump and rod questions.

14. Long stroke pump to test for good pumping action.

15. Leave enough polished rod for operators to correctly space pump as required.

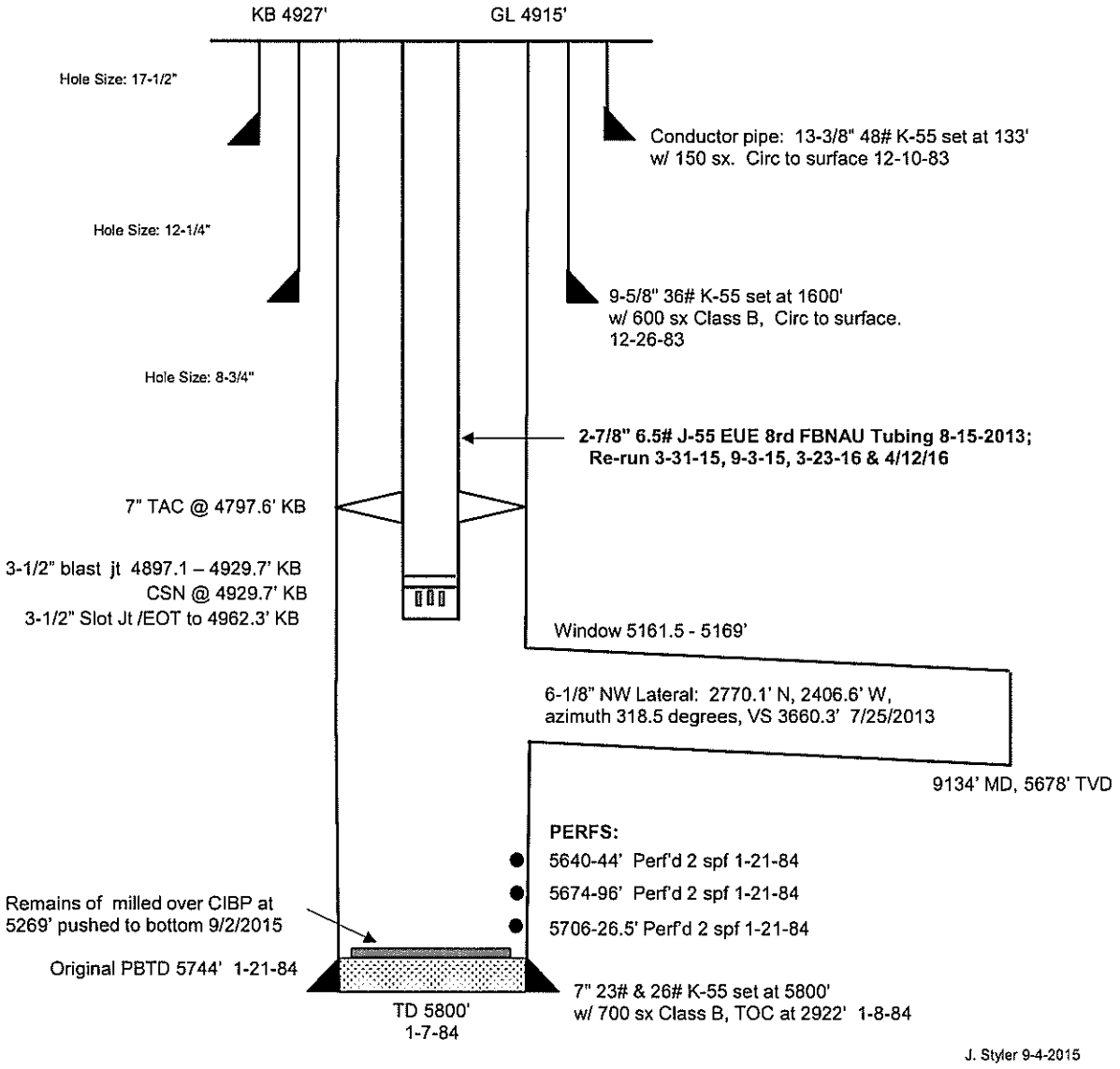
16. Notify the Area Production Supervisor Terry Lee or Alfred Redhouse that well is ready to return to production.

17. RDMOL. Hook up appropriate chemical treatment.

RATHERFORD UNIT # 29-33H

GREATER ANETH FIELD
1860' FSL & 1820' FEL
SEC 29-T41S-R24E
SAN JUAN COUNTY, UTAH
API 43-037-30932

PRODUCER



J. Styler 9-4-2015

Resolute — **Schematic - Current** — **WellView**

Well Name: RU 29-33

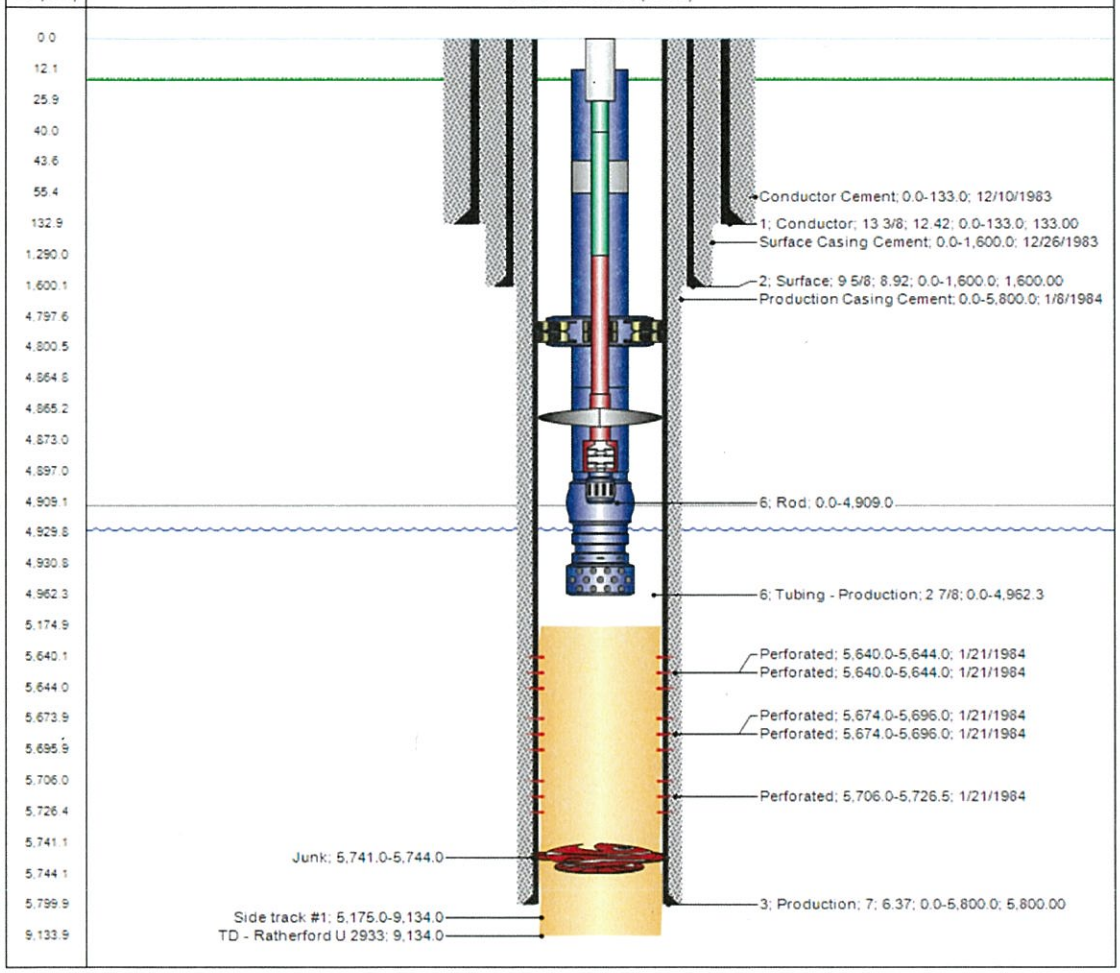
API Number	Qtr/Qtr	Field Name	State/Province	Wellbore Config	Enertia ID#
4303730932	SE	Ratherford Unit	Utah	Vertical	0657.01
Ground Elevation (ft)	**Casing Flange Elevation (ft)**	**KB-Ground Distance (ft)**	**KB-Casing Flange Distance (ft)**	**Regulatory Spud Date**	**Rig Release Date/Time**
4911		16.90		12/26/1983 00:00	1/28/1984 00:00

Most Recent Job

Job Category	Primary Job Type	Secondary Job Type	Start Date	End Date
Workover	Pump Repair		3/17/2016	4/15/2016

Schematic

Vertical - Ratherford U 2933, 10/26/2016 8:30:05 AM



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-603-407

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO

7.UNIT or CA AGREEMENT NAME: RATHERFORD

1. TYPE OF WELL Oil Well

8. WELL NAME and NUMBER: 29-33

2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES

9. API NUMBER: 43037309320000

3. ADDRESS OF OPERATOR: 1700 Lincoln Street, Suite 2800 , Denver, CO, 80203 4535

PHONE NUMBER: 303 534-4600 Ext

9. FIELD and POOL or WILDCAT: GREATER ANETH

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1859 FSL 1836 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 29 Township: 41.0S Range: 24.0E Meridian: S

COUNTY: SAN JUAN

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 11/10/2016	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Pump Repair

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute Natural Resources respectfully submit this sundry as notice that the pump repair on the above well was completed on 11/10/2016 according to previously approved procedures

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
November 29, 2016

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Erin Joseph	303 573-4886	Sr. Regulatory Analyst
SIGNATURE		**DATE**
N/A		11/22/2016

RECEIVED: Nov. 22, 2016